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Clinical Investigation Activity

QUALITY OF CARE INDICATORS IN THE AMEDD

by

MAJ Donald E. O'Brien, Ph.D. CPT(P) James M. King, Ph.D. A. David Mangelsdorff, Ph.D.

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SECURITY CLASSIFICATION OF THIS PAGE(When Date Entered) construction of varying lists of indicators tailored to the unique needs of individual users. The study also concluded that the management of quality assurance programs at the MEDCOM level requires somewhat different management techniques than previously envisioned,

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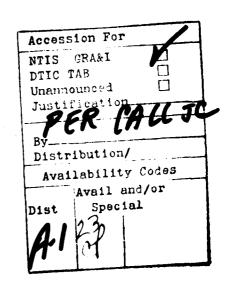


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INTRODUCTION

In the last few years increasing attention has been given to the quality of health care provided by the military services. Public and congressional attention originally was focused most sharply on the Air Force as a result of the problems at the Wilford Hall Medical Center (US Medicine, 1983c). Numerous other problem areas also involving the Army and the Navy have been cited in various publications (Army Times, 1982a, 1982b, 1983b, US Medicine, 1982b). As a result of these incidents, the Department of Defense (DOD) and the various services have been charged with developing programs that would insure the quality of the care provided in military medical facilities and which would also create a system whereby substandard providers of care would be identified and eliminated from the medical system (DOD Directive, April 1983).

In 1981 The Office of The Surgeon General, US Army (SGO), recognized the need to identify factors which could be used as indicators of the quality of care being provided at Army Medical Treatment Facilities (MTFs). As a result, the present study was made a part of the FY 83 Army Medical Department (AMEDD) Study Program. Between the launching of the study in October 1982 and the preparation of the final report, a number of events have occurred which have both anticipated the recommendations of this report and have underlined the need for changes in the present AMEDD quality assurance monitoring system. For example, the Department of Defense (DOD) has recently published "national averages" of the mortality rate for selected diagnoses. In addition, DOD is requiring that all physicians providing care in military hospitals be monitored as to the mortality rates of the patients with these diagnoses under their care (Army Times, 1983c). One of AMEDD's needs in terms of evaluating the care it gives, which this study recognized, is a set of empirically derived standards that can be used to evaluate the level of care provided throughout the AMEDD system.

In order to understand the present state of affairs and the types of problems now facing the AMEDD, we should briefly trace the history of the Quality Assurance (QA) movement in the United States. Historically, the physician was the sole arbiter of the quality of care provided to the patients. Hospitals were seen only as "onlookers" and not as being responsible for the type of care that the physician provided. It was not until 1964 that a court decision found that hospitals could indeed be held liable for care provided to patients because they had the power to influence the practice of the physician within their facilities (Darling, 1964). At this point, hospitals as corporate entities, became concerned about the quality of care delivered by "private" physicians because of the obvious threats of malpractice suits for substandard care. Although not reflected in the literature, one can infer that there is some connection between this concept of corporate liability and the tendency of multi-hospital organizations to look for quality of care indicators. Two organizations which have impacted on the development of present day QA standards are the Joint Commission on the Accreditation of Hospitals (JCAH), which was established in 1951, and its predecessor, the American College of Surgeon's Hospital Standardization Program (ACSHSP) which was established in 1919. The ACSHSP developed the first minimum accreditation standards for hospitals in this country. Its successor, the JCAH, has developed more detailed and comprehensive standards for accreditation and today sets the national standards for hospital accreditation.

Another aspect of QA was recognized by the creation of Professional Standards Review Organizations (PSROs) mandated by Congress to review "the appropriateness of care provided by Medicare, Medicaid and Maternal and Child Health Programs" (Denlo, 1983). Although primarily intended as a cost containment program, through their review processes, the PSROs have also improved quality of health care (Palmer, 1976).

As the various efforts to improve health care unfolded, a series of steps we can call the Quality Assurance Process developed. This process has five steps:

(1) Problem identification, (2) Problem verification, (3) Identification of problem cause and plan for its correction, (4) Implementation of corrective action, and (5) Assessment of the effectiveness of the problem solving actions (Williamson, et al., 1983). This process has been widely adopted and fits in well with current JCAH standards. Also, many hospitals have added new personnel to support the QA Programs and have created positions for QA Coordinators.

These coordinators usually report to the hospital director or assistant director, and one of their main tasks is to assure that the various departments are carrying out their individual QA reviews using this process.

Until 1982, all of the efforts were focused on improving the delivery of services to individual patients. However, the flow of this line of thought was either towards: (1) Evaluating the care provided to the individual patient by the individual provider, (2) Improving care to a certain category of patients (e.g., hypertensives), or (3) Improving care given by a particular hospital to its own patients (Graham, 1982).

Spurred by different stimuli, in 1982 the JCAH and the Army each began to look at the problem of determining QA indicators for multi-hospital systems.

Through a grant from the Kellogg Foundation, the JCAH began a three year project with the Sisters of Mercy Hospital Corporation to establish QA indicators for

such systems (JCAH Perspectives, 1982), while the AMEDD directed that the present study be carried out.

THE ARMY MEDICAL DEPARTMENT

The Army Medical Department (AMEDD) is the second largest medical organization in the United States, exceeded in size only by the Veteran's Administration hospital system (HSC, 1978). Historically the process of evaluating the regiven to the military and their dependents has been essentially the same < in civilian health care systems, i.e., the physician was the sole arbiter c & constituted good care. In the Army, as in civilian institutions, physicians practiced in hospital based settings, and there was a peer review process. The overall level of care provided in the hospital was monitored by medical audit committees composed primarily of physicians, while final responsibility for patient care rested with the Hospital Commander, who was also a physician.

The AMEDD, in the context of the quality of care issues, can be said to have provided the structural elements of care: i.e., staff, supplies, and facilities. The AMEDD had technical control of the hospital and a type of quality control was provided through inspections by the Inspector General and JCAH accreditation visits. However, it was only recently that the AMEDD began to approach the question of quality assurance for its medical system as a whole. Because of the closeness and similarities of civilian and military medicine, it is not coincidental that the civilian world (JCAH) was also beginning to look at the same question, i.e., how to manage quality assurance programs in a multi-hospital system?

THE PROBLEM

The task which this study faces is to identify quality of care indicators for the AMEDD. This task can be approached in a number of ways. First, we can visualize quality of care indicators as they exist in much of the literature, i.e., those factors which profess to tell us of a certain level of care for a certain illness. With this as our focus, we can look at an individual patient after a treatment and decide if the patient did or did not receive adequate treatment. This view implies looking at the variables of [provider - patient - illness - treatment - standards - outcome] either singly or in some combination and making a determination as to whether the patient received good care. In practice, only a small sample of care episodes can be evaluated under this process in a non-automated system.

If we take this one step further and look at it from the point of view of the person responsible for operating a number of hospitals, the question becomes: did every provider treat every patient in an appropriate manner during a specified period of time? When asking this question our original model [provider - patient - illness - treatment - standards - outcome] does not provide an adequate answer. These variables are not simply additive, and the concatenation of the many components of such a model does not lead to a simple yes or no answer.

What emerges from our original quest of a search of indicators of Quality Care for the AMEDD, is the need to look not just for those factors that may be identified by the traditional QA literature as indicators for evaluating care in specific cases or for specific illnesses; the problem that we face in this study is to identify those factors which will allow the AMEDD to improve its Program

Evaluation System (Fifer, 1979). These factors may or may not be what the literature has traditionally described as QA indicators. However, the "indicators" chosen should allow the managers of the AMEDD program to infer the presence or absence of quality care in the AMEDD system.

HYPOTHESES

This study began with at least one explicit hypothesis: i.e., that a list of "indicators" could be constructed which would allow evaluation of the "quality of medical care" being delivered in a given MTF and in the AMEDD as a whole. An implicit hypothesis was that this development process might result in a product that was unique to military medicine. This idea took into account the thesis, advanced by some, that military medicine is unique and different from medicine as practiced in the civilian sector.

ASSUMPTIONS

A set of assumptions was made at the beginning of the study:

- 1. A set of indicators could be developed.
- 2. The number of indicators was not restricted.
- 3. The indicators would be measureable.
- 4. Prior work in both the civilian and military sectors would be employed to create the list of indicators.
- 5. The list of indicators did not have to be limited by current AMEDD data collecting systems.
- 6. Political and policy concerns of DOD and DA would not affect the final list chosen.
- 7. The list of indicators should not be limited to "failures" or "errors" in medical practice.

- 8. The list of indicators should be applicable to multi-hospital systems and to varying levels of administration.
- 9. The list of indicators should be useful to all of the potential users.
- 10. Compilation of the list of indicators should involve minimal extra work for practitioners or MTF data collectors.
- 11. Maximal consideration should be given to utilizing automated data systems.

METHODOLOGY

The methodology of this study consisted of the following steps:

- 1. Review of the pertinent literature.
- 2. Inquiry into current QA practices in:
 - a. Military Medical Treatment Facilities (MTFs).
 - b. Civilian MTFs.
 - c. Related civilian organizations.
- 3. Investigation of Patient Data Information Systems in:
 - a. The AMEDD.
 - b. Civilian MTFs.
- 4. Consolidation of information gathered in steps 1, 2, and 3 above.
- 5. Construction of an ad hoc theoretical model.
- 6. Informal testing of the model.

REVIEW OF THE LITERATURE

Our review of the literature on Quality of Care Indicators quickly turned into a review of the Quality Assurance field, and the majority of this section will therefore deal with QA. The literature review concentrated on discovering:

(1) How the literature defined QA, (2) What QA methods were being used, and (3) Which methods could be used in the AMEDD system.

The literature makes a distinction between Quality Control and Quality Assurance (Graham, 1982c). Quality Control is seen as a process used to discover lapses in the quality of care delivered and then taking some action to correct the lapse. QA, on the other hand, is seen as being a mechanism to assure a certain level of care by preventing the level of care from falling below a given standard. The literature generally conceptualizes health care services as having three dimensions: Structure; Process; and Outcome. Structure describes the resources used for health care, e.g., facilities, equipment, staff, etc. (Palmer, 1976). Process is seen as those "activities performed in the patient management process" (Demlo, 1983). Outcome is the effect that the health care process has on the patient (Donabedian, 1982). Various attempts have been made to define QA through these dimensions and; by measuring the presence, absence, or degree of such indicators, make a judgement as to the quality of the care provided (Constanzo and Vertinsky, 1975). Such approaches as Sentinel Health Events (Rutstein, et al., 1976; Chen and Yang, 1979) the Tracer Method (Kessan, 1973), Criteria Mapping (Greenfield et al., 1975), Medical Audit (Morehead, 1982), and Staging (Gonnela, 1982), all represent attempts to establish quality assurance mechanisms.

After reviewing the various approaches to QA outlined in the literature it became obvious that most techniques described would be inappropriate to our task. For example the medical records audit (Morehead, 1983) is already in use in Army MTFs, but it is not sufficient to provide the basis for a system-wide

QA program. Sentinel events, the Tracer Method (Kessener and Kalk, 1973), Criteria Mapping (Graham and Rosenburg, 1982b), etc., all, in and of themselves, failed to meet the criteria we had set. Each of these methods would reflect only a small part of the operations of the AMEDD health care system. A review of works which encompassed a wide range of QA topics and issues (Greene, 1976; Miller and Knapp, 1979; Graham, 1982c; Lang and Clinton, 1983) failed to reveal any specific QA techniques that would seem to meet the needs of a multi-hospital system such as the AMEDD.

We next reviewed current QA practices in government and civilian hospitals. In all of them we found that the underlying motivation for QA programs (QAPs) were the JCAH requirements. The JCAH's QA program emphasizes the discovery of problems through a QA process (JCAH, 1982). This process, which was described above, is mentioned here because we discovered that a great many civilian hospitals had already added QA Coordinators to their staffs to implement the JCAH required QA programs. This QA Coordinator is responsible for overseeing the hospital QAP and, among other things, assuring that the hospital's sub-elements carry out effective QAPs by using the QA process. The position of QA coordinator has become so commonplace in civilian hospitals that a national organization has been formed called the National Association of Quality Assurance Professionals (NAQAP). An estimated five hundred persons attended its 1982 annual meeting, hower

v three persons representing the AMEDD could be identified at the me

In summary, hospit are generated by the JCAH requirements for QAPs.

Organizationally, with the exception of the QA Staff, the MTF organizational structure is basically unchanged from earlier JCAH requirements. At the

time that this report is being written, not all Army Hospitals have positions for QA coordinators, but a draft job description for the QA coordinator position was being staffed in August, 1983 by Headquarters, Health Services Command (HSC, 1983).

PATIENT DATA INFORMATION SYSTEMS

The Army Medical Department stores patient care data almost exclusively in individual record files. Each patient has an individual outpatient record jacket which he carries with him from post to post. Inpatient data is also kept in individual records, but the record is retained on file in the hospital that provided the care. After a number of years, the inpatient file is retired to a central records depository. The AMEDD does have an automated data system of sorts, the Individual Patient Data System (IPDS). This system was not designed to be used for QA purposes, but rather as a system to monitor general health trends in the Army. The IPDS can be utilized to produce some types of data that are useful for QA studies. Examples of the types of data available are included in ANNEX A. The problem with trying to utilize the present IPDS system as a base for a QAP is that the record length would have to be greatly expanded to handle the data necessary for a modern QAP.

The AMEDD has one automated outpatient data system currently in use in the MTF at Redstone Arsenal, Alabama. This system captures a host of outpatient data as shown in ANNEX B. This system was originally begun as a study carried out by the US Army Health Care Studies and Clinical Investigation Activity (HCSCIA) and proved to be so popular with both the health care providers and the administration of the hospital, that it was retained in operation after the test

period expired. Two other Army Hospitals have begun work with automated QA systems during the past year: Womack Army Community Hospital, Fort Bragg, North Carolina, and William Beaumont Army Medical Center, Fort Bliss, Texas. At this writing no formal reports on the outcome of these endeavors have been announced. An example of the data being collected by Womack Army Hospital is contained in ANNEX C.

TRIMIS is proposing a fully integrated medical information system, but this system is only in the very preliminary planning stages. The AMEDD requires an operational system to answer its quality assurance needs for the foreseeable future.

This study also looked at some of the automated data systems available in civilian hospitals. There are at least three automated systems that provide data summaries to subscriber hospitals. They are the Professional Activities Studies (PAS), the Hospital Utilization Program (HUP), and the Health Services Data Systems (HSD). These three systems are similar in concept. For the purpose of brevity, we shall discuss only the largest of these, the Professional Activities Study, which has approximately twelve hundred hospital subscribers. The Hospital Utilization Program has about six hundred subscribing hospitals, and the Health Services Data System has somewhat over one hundred subscribers.

In the PAS system, data is extracted from the medical record using ICD-9-CM diagnostic codes. This information is input from a computer terminal to a magnetic tape. This tape is sent periodically to a central processing office and a monthly report is provided to each hospital. Coding of medical data is facilitated by menu driven programs which convert English words into correct ICD-9-CM codes in response to key words.

Examples of the types of data provided by PAS are given in ANNEX D.

Summaries of these data are provided by such indicators as diagnosis, procedures, and mortality and morbidity rates. Data can be grouped according to the medical service to which patients were assigned (e.g., Pediatrics, Internal Medicine, etc.), and summary data are provided for the hospital as a whole. A useful feature of this report is that it contains predetermined hospital thresholds for the particular criteria being considered and indicates where care has fallen below that preselected threshold. The same report also gives comparison rates for other similar facilities.

Another example of automated data use is in the area of Risk Management.

One such system, the Variance Report, consists of a coded incidence report sheet that is filled out by the hospital staff whenever an unusual incident occurs. A copy of the report is sent to a central data collecting agency which in turn provides monthly summaries of types of incidents, sites of occurrences, personnel involved and rates of occurrence in other institutions. (Annex E) More recently, some hospitals have begun to convert to fully automated systems which not only have the capability of summarizing categories of data, but are capable of recording every patient care transaction performed in the hospital. An example of such a system is that used by the New York University (NYU) Medical Center, University Hospital's Hospital Information System. The technical systems at the NYU Medical Center and the William Beaumont Army Medical Center are both provided by Technicon Systems Corporation.

THEORETICAL MODEL

The information mentioned above was reviewed with the idea of constructing an overall set of criteria for identifying the desired Quality of Care Indicators. In order to construct a model for the AMEDD, it was necessary to

visualize the system wherein the indicators would be used. First of all, the AMEDD is composed of a number of MTFs ranging from small hospitals to medical centers. These MTFs are geographically arranged under three medical commands. These commands have direct operational responsibility for all the MTFs in their area. The commands, in turn, are each responsible to a major Army Command (MACOM).

The Office of The Surgeon General (SGO) is responsible for advising DA on medical matters, and although it does not have direct reponsibility for the medical commands and MTFs, it does provide technical supervision. This role as technical supervisor dictates that SGO be well informed about the levels at which the MTFs are functioning. Therefore, many levels of administrative and professional controls exist: (1) the primary health care provider, (2) the Chiefs of the Services or Department in which the care is provided, (3) the Chief of Professional Services and/or Hospital Commander, (4) the Commander of each medical command, and, (5) the SGO at DA. Thus, any QA system should produce data which are meaningful and useful to all of these levels. Therefore, our first requirement for a system is that it should provide useable data for a multi-level organization.

One element of the current AMEDD data system is that it stresses the collection of indicators that are oriented towards the bureaucrat, e.g., MCCU's, number of patients seen by categories of precedence, i.e., active duty, active duty dependent, retired, retired dependent, etc. These types of data are not at all useful in helping the provider to improve the care he is giving his patients. These data are also meaningless when it comes to evaluating the type of care that is being provided by the system.

In order to properly carry out the process of evaluation of care it will be necessary to collect different types of data on a regular basis. What is needed is the collection of clinical data which will allow the proper evaluation of the quality of the care being offered in the system. Collection of such data can, predictably, produce either of two general reactions from the providers. A negative reaction will be produced if the type of data collected stress the "mistakes" the providers have made and is used solely by non-providers to wield an indignant hatchet. On the other hand, a positive reaction can be elicited if the data collected are used to aid the providers in their treatment of patients (Hirschorn, 1981). In other words, the data should produce reports that are available to and useful to, the provider of patient care, and not just to the administrators of the systems. Therefore, the second requirement for our model is that the data collected must be disseminated to the provider to improve the level of care provided to the patients.

The issue of just what type of data should be used in judging quality of care was one of the central points of this study. One initial speculation was that one could specify a relatively small number of factors and, by measuring their occurrence or lack of occurrence, judge the quality of the care provided. However, when one took into account the variety of health care providers, physicians and non-physicians, within the system, and the multi-level use of the data, it becomes apparent that a small, "manageable" list would not meet the study's requirements.

This realization led to the third requirement for our model, i.e., the need for a large data base, utilize all available patient data, to be used to generate the indicators of the quality of care. Items from this pool could be

selectively retrieved, in individual or aggregate form, depending upon the needs of the user. This data base would allow comparisons of the levels of care provided between like-size institutions (e.g., Medical Centers) or between like services (e.g., Internal Medicine) throughout the AMEDD. This capability now exists at an embryonic level within the AMEDD, but further development of the IPDS would be necessary if this capability was to be utilized in a routine manner.

A fourth component of our model was the idea that it should utilize a fully automated data collection, storage, and retrieval system. Increasingly, technicological advances are being introduced into health care facilities (Austin and Carter, 1981; Bock, 1982; Carel, et al., 1982; Edmunds, 1983; NIS, 1983) and, as far back as 1966, government sponsored reports called for the automation of patient data systems (DOD, 1966). In fact, there exists today in the AMEDD, in raw form, most of the data needed to implement an efficient QA monitoring system. However, there is no efficient automated system that lets potential users retrieve and analyze that data in a readily useable and economic manner. If an efficient QA program is to be installed in an organization as large as the AMEDD, it is necessary that it be accomplished with the use of a modern automated data system. As Austin and Carter (1981) point out, QA systems are data dependent, and an effective clinical information system is the sine qua non in the design of a QA program.

The automated data system mentioned above would link all the MTFs into a network feeding information to a Central Data Processing Facility (CDPF).

This facility would analyze the individual patient data, maintain the data base, and provide aggregate reports to the individual MTFs (much in the manner that

In addition to its regular reports, the CDPF would have the ability to generate special reports by request for chiefs of service, MTF commanders, or MEDCOMS, would automatically generate reports for specified managers in the AMEDD system, and would furnish reports on their professional activities to each provider. The fifth component of our model then, is that the automated system be programmed to provide reports at the provider, department, and MTF levels, and that special reports be automatically produced for higher levels of management when significant deviations from performance standards occur.

One of the objectives of any QA program is to keep patient care at, or above, a pre-se[']ected standard. In order to achieve this goal the standard selected should be measured against objective criteria. Military medicine derives its roots and its standards from the practice of civilian medicine and, in comparisons regarding the quality of military medicine, the standards used are invariably those of the civilian community (e.g., JCAH). Therefore, in the construction of a QA database for the AMEDD, the goal should be to use a coding procedure that will allow a direct comparison between AMEDD data and data derived from civilian medicine. At present the AMEDD uses an older coding system (ICD-9) that is not completely compatible with the coding system used by civilian hospitals (ICD-9-CM). The ICD-9-CM allows for a more detailed coding of diagnoses and, therefore, is more informative than the system the AMEDD is now using. The sixth requirement for our QA model, then, is that it uses an upto-date coding system that would allow direct comparison to be made with civilian data bases. In order to accurately track data in this system, the data base should contain a means of identifying health care providers.

As mentioned earlier, the use of QA Coordinators to oversee civilian hospital QA programs has grown in recent years. However, the employment of QA Coordinators in the AMEDD seems to have lagged somewhat in the MTFs, and to have been neglected in the MEDCOMs. In order to support the earlier requirements of our model, our final requirement is that there be adequately trained personnel, in proper organizational positions throughout the AMEDD hierarchy to carry out the QA program. Table 1 summarizes the requirements of the QA Model.

TABLE 1

REQUIREMENTS FOR QA MODEL

- 1. Provide usable data for a multi-level organization.
- 2. Data should be "user friendly."
- 3. System should provide a large pool of data.
- 4. Should utilize a fully automated data collection, storage and retrieval system.
- Capability of providing varied reports to different organizational levels.
- 6. Use up-to-date diagnosis classification coding system.
- Properly trained personnel in proper organizational positions.

INFORMAL TESTING OF THE MODEL

As this study progressed we decided to test some of our impressions regarding a workable QA model for the AMEDD. For this purpose we enlisted the aid of the Quality Assurance Committee at Health Services Command (HSC) and the Patient Administration Systems and Biostatistics Activity (PASBA), both of which are located at Fort Sam Houston, Texas.

Our goal was to see if a MACOM could easily adapt to using the products of an automated QA data system without having to make any changes in its

organizational structure. Fortunately, at the time we had proposed the idea of looking begun to look at the problem of supervising the care provided in their MTFs, and had formed a QA Committee. This committee included a data analyst from PASBA. One of the initial tasks of the QA Committee was to look for ways to accomplish their mission, and the idea of looking at PASBAs IPDS database was suggested simultaneously by the PASBA analyst and by HCSCIA.

The idea underlying the committee's review of this data was as follows: By monitoring selected data, they might be able to identify potential problem areas in the health care delivery system before these problems became critical.

Therefore, PASB provided the committee with a number of sets of data, broken out by MTF, which showed such things as diagnostic categories, procedures, and complication rates. These data products were first studied by the PASBA analyst to see if any trends could be discovered. The data was then studied by a physician, who reviewed the data from a clinical point of view. After this preliminary work was completed, the results of the data evaluation were reported to the full committee.

The results of this exercise was twofold. First, it demonstrated that the analysis of previously unanalyzed aggregate indices could be useful in evaluating the levels of functioning of the various MTFs grouped under a MACOM in that they allowed the MACOM to act proactively rather than reactively. Second, this exercise demonstrated that the computation of the indicators and their proper analysis required a large number of expert man hours. These points will be further discussed in the Recommendations portion of this report.

FINDINGS

At this time there are a number of alternatives available to the AMEDD in regard to its QA Program Evaluation efforts:

1. It can adopt either a fixed or a varied list of QA indicators in order to help evaluate its programs.

Initially, it may appear that a fixed list would be the option of choice. However, the use of such a list is replete with problems for, to compile the list, one would have to define the user(s). As mentioned earlier, there is more than one level of user in the AMEDD hierarchy, and each level has a different use for such a list. Second, in compiling the list, one would have to determine how the list would be used. Since we would have a multi-use list we would then be forced to deal with the problems of the length of the list. The shorter the list, the fewer the number of potential users. The longer the list, the more potential users, but the more irrelevant data would be included for any given user. Finally, the idea of a fixed list derives from the notion that it is necessary to pinpoint specific data items and mandate their repetitious collection in order to be assured of having that data available in a timely fashion. This idea is outmoded in that it presumes, as was the case in the past, that patient data statistics must be laboriously extracted manually from records. specifically for the purpose of producing the required reports. Finally, for the AMEDD to create such a fixed list for itself would only duplicate past efforts in the civilian world, and would absorb AMEDD resources which could more profitably be used elsewhere. The adoption of a system of variable lists of indicators would avoid these problems, and would allow users at differing levels to compile information suited to their own particular need. They would not be forced to deal with data that was designed for other uses.

If the AMEDD adopts the idea of variable lists for its QAP, it could immediately begin to build upon data systems now in existence. For example, it

could adopt the PAS or a similar civilian system, or begin to form its own QA data base by building upon the work already done by PASBA, Womack Army Hospital, and HCSCIA through the Ambulatory Care Database Study at Redstone Arsenal (Misener, 1983). In order to fully implement the concept of the variable lists of indicators, it will be necessary for the AMEDD to (1) fully automate both its inpatient and outpatient data systems, and (2) establish a patient data pool for QA purposes. We shall discuss both of these points.

2. The AMEDD can either stay with a partially automated patient data system, or move to establish an automated records system immediately in order to meet the needs of its quality assurance program.

IPDS, in its present form, cannot meet the needs of a QA data system.

TRIMIS may eventually meet these needs, but it will certainly not do so in the near future. Thus, the AMEDD will be faced with an operational gap, in that it will be asked to monitor the quality of care it is providing, but will have no modern or efficient means of so doing. As a result it will have indicies of the overall quality of care being provided to its patients such as individual physician mortality rates, imposed on it from above.

If the AMEDD moves to automate its patient data systems, the immediate byproduct will be a pool of readily available patient data which can be used by
providers, as well as by managers, to monitor and improve the quality of health
care within the AMEDD system.

3. The AMEDD can utilize existing staff or create new positions to monitor its QA Programs.

In the civilian community, the position of hospital QA Coordinator has become commonplace. We have noted that in HSC the need for QA coordinators in

MTFs has been recognized and the establishment of the positions is being supported. However, the need for special positions to monitor the QA Programs at the medical command level has not been recognized by the AMEDD system. Our experience with the HSC QA Committee indicates that any efforts to monitor the levels of care in the MTFs by data analysis requires great amounts of time on the part of individuals with specialized knowledge and skills. If the MTFs are to have specialists to monitor their QAPs, it is reasonable to expect that dedicated personnel should be utilized to oversee these programs at the medical command level.

4. The AMEDD can continue to use the ICD-9 coding schema or converting to the ICD-9-CM schema currently being used in the civilian sector.

Essentially, the difference between the two coding systems is that the ICD-9-CM is capable of recording more detail about any given diagnosis. Use of the ICD-9 automatically limits the amount of clinical data that can be collected about the patients in the AMEDD health care system. The two schemas are sufficiently different that it is difficult to make direct comparisons between data from military and civilian sources. The need to compare the performance of military and civilian medical systems was raised, at least implicitly, when the services were questioned by Congress about the level of care provided in military hospitals. Since valid comparisons require the use of similar coding methodologies, adoption of the ICD-9-CM schema would help to overcome this aspect of the compatibility problem.

5. The AMEDD can establish its own standards of practice by using its own past levels performance as its baseline, or it can use those provided by civilian medical facilities as its norms and standards of practice.

Since the AMEDD adheres to JCAH standards for its hospitals, it is safe to assume that civilian medical standards will continue to guide the practice of Army medicine. However, civilian standards and norms are not necessarily used in all areas of Army medicine, because within the AMEDD system, there is a lack of normative data about the civilian sector. For example, the Committee on Professional and Hospital Activities compiles from its subscribing hospitals a yearly summary of patient data that would be very useful to the AMEDD in comparing the performance of its MTFs with civilian facilities. However, at the time this report was prepared HSC did not possess this type of data. Lack of this type of information makes it difficult to arrive at valid judgments about the quality of care in AMEDD facilities. If the AMEDD is to subscribe to civilian medical standards, as JCAH accreditation implies, then it follows that an effort should be made to collect specific performance data both for its own institutions, and also for similar civilian institutions.

6. In attempting to predict and prepare for future demands of quality assurance programs in its hospital system, the AMEDD can choose a reactive or a proactive course.

As mentioned above, JCAH is doing the first work on QA indicators for multi-hospital systems. If this work is at all successful, it will certainly impact on the AMEDD system in the form of JCAH standards. At this point in time, the AMEDD can choose to wait until an outside agency defines the important factors in multi-hospital QA management and, thereby dictates how that management will occur. On the other hand, the AMEDD can begin to carry out a systematic, ongoing, research plan that will define the important aspects of multi-hospital QAPs and, as a result, take an active part in the development of the emerging

national multi-hospital QA standards. In view of the certainty of ongoing demands for QA accountability, and in view of the obvious need for a fresh approach to the management of QAPs within the AMEDD system, it would seem that the AMEDD could certainly profit from establishing an ongoing research program in this area. Such a project could be carried out independently, or in concert with JCAH's research efforts.

Based on the preceding discussion, the authors see no need for the AMEDD to construct a unique set of quality of care indicators. Since many established data bases already exist it would be more sensible to use one of them, if such a list is desired. Further instead of relying on one fixed list, the AMEDD should employ modern information technology to construct varying lists of indicators, each tailored to the specific needs of the individual users at the SGO, medical command, MTF, and provider levels. In this same vein, the AMEDD's patient data coding schema needs modification so that it will be as detailed as that of the civilian medical community, and the AMEDD needs a source of continuing information on standards of care in the civilian community.

Changes are necessary in the control over the QA functions in the MTFs.

Specifically, rather than operating solely in a reactive mode, the MEDCOM must exert a proactive influence on the care given in its MTFs by conducting analyses of operational data from the MTFs in order to identify problem areas before they become critical problems. Proper implementation of such a system will necessitate the recognition that an adequate level of expertise and dedicated manpower are necessary at the medical command staff level.

Finally, the AMEDD is in need on an ongoing research plan to systematically look at the Quality Assurance Programs in its hospitals, and to make recommendations based on empirical data regarding future courses of action.

RECOMMENDATIONS

In view of the preceding discussion, it is recommended that:

- 1. The AMEDD not create a fixed list of quality of care indicators.
- 2. The AMEDD utilize variable lists of quality of care indicators tailored to the needs of specific users.
- 3. The AMEDD automate its clinical data system, to include both inpatient and outpatient records.
- 4. The AMEDD create a database of patient information which can be used both for quality assurance programs, and as a source of research data on quality assurance programs.
- 5. The AMEDD provide personnel slots at its medical commands to monitor quality assurance programs, in the Medical Treatment Facilities.
 - 6. The AMEDD convert its diagnostic coding schema from ICD-9 to ICD-9-CM.
- 7. The AMEDD regularly obtain normative data on quality assurance indicators used by civilian hospitals, in order to provide a yardstick against which to measure its own programs.
- 8. The AMEDD begin an ongoing research program in the area of quality assurance in multi-hospital systems.

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ANNEX A

Sample Reports Produced by the Individual Patient Data System

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Ė	CANDLE DEBOOKS COOMISS OF CATTERY AND THE PROPERTY OF COMMENTS OF
	SETTATION SYSTEM STANDER CADUCER CADUCER STANDAR STANDAR STANDER STANDAR STAND
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1.	EXPLANATORY NOTES
2•	SIGNAL EVENTS FOR DETERMINATION OF COMPLICATIONS OF MEDICAL CARE
	SAMPLE ARMY MTF. CY 1902(FREWUENCY)
3 •	NUMBER OF DISPOSITIONS AND BED DAYS BY PRIMARY DIAGNOSIS OF PATIENTS WITH SIGNAL EVENTS FOR DETERMINATION OF COMPLICATIONS OF MEDICAL
	CARE, SAMPLE ARMY MTF, CY 1982
4.	SIGNAL EVENTS FOR DETERMINATION OF COMPLICATIONS OF MEDICAL CAPE.
	INPATIENT DEATHS. SAMPLE ARMY MTF. CY 1982
5.	NUMBER OF DEATHS AND BER DAYS BY UNDERLYING CAUSE. IMPATIENTS WITH
	SIGNAL EVENTS FOR DETERMINATION OF COMPLICATIONS OF REDICAL CARE. SAMPLE ARMY MTF. CY 1982
6.	SIGNAL EVENTS FOR DETERMINATION OF COMPLICATIONS OF MEDICAL CARE.
	DISABILITY SEPARATIONS. SAMPLE ARMY MTF. CY 1982
7.	DISABILITY SEPARATIONS AND BED DAYS BY UNDERLYING CAUSE. IMPAYIENTS
_	WITH SIGNAL EVENTS FOR DETERMINATION OF COMPLICATIONS OF MEDICAL CARE SAMPLE ARMY MTF. CY 1982
•	Jan Le an France
A _	SURGICAL PROCEDURES PERFORMED ON PATIENTS WITH SIGNAL EVENTS FOR
	DETERMINATION OF COMPLICATIONS OF MEDICAL CARE.
	SAMPLE ARMY MTF. CY 1982
9•	SIGNAL EVENTS FOR DETERMINATION OF COMPLICATIONS OF MEDICAL CARE, ALL PATIENTS BY CLINIC SERVICE, FORT SAMPLE
	SAMPLE ARMY MEDICAL TREATMENT FACILITY. CY 1982

	BIUSTATISTICS ACTIVITY	
EXP	PLANATORY NOTES:	
	REPORTS ARE BASED ON TIMPATIENTS AT A SAMPLE ARMY MEDICAL TREATMENT FACILITY WITH ONE OR MORE OF THE SIGNAL EVENTS FOR DETERMINATION COMPLICATIONS OF MEDICAL CARE CODED IN THE CLINICAL RECORD.	
	DATA EXCLUDE CARDED FOR RECORD DNLY (CRC) CASES. ARMY PERSONNEL I ABSENT SICK STATUS (IN A NON-MILITARY FACILITY FOR ENTIRE PERIODOF HOSPITALIZATION).	
	DATA DO NOT INCLUDE THOSE DIAGNOSES WHICH WERE TREATED AND CURED PRIOR TO ADMISSION TO SAMPLE ARMY-MEDICAL TREATMENT-FACILITY.	
	THE MEAN ISTHE-AVERAGE DAYS OF HOSPITAL BED OCCUPANCY FOR EACH DIAGNOSIS.	
	TOTAL DAYS ARE THE TOTAL NUMBER OF DAYS OF HOSPITAL BED OCCUPANCY	1.
·	THE UNDERLYING CAUSE IS THE DIAGNOSIS CODE DESIGNATED AS THE UNDERLYING CAUSE OF DEATH-OR-DISABILITY SEPARATIONS.	
3•	ABBREVIATIONS:	
		
	DE THE INTERNATIONAL CLASSIFICATION OF DISEASES (IC	

	SAMPLE_ARMY_HEDICA	AL TREATMENT FACILI	TY. CY 1982 S TREATED AND CURED AT ANOTHER MIF)		
	INCIDENCE DG CUDE	TITLE 41C0-91	FREQUENCY		
-	0400	GAS GANGRENE			
: ?	0410	STREP INFECTION			
~	0411	STAPH INFECTION	35		
-	0412-	PNEUMOCOCCL INFCIN			
~	0414	E COLI INFECTION			
۰	0417				
~	6150	BACTERIAL INFEC-	52		
70	0103	HEPATITIS B.VIRUS			
•	0104	HEPATITIS B.VIRUS			
01	0105	HEPATITIS B.VIRUS		· The second second of the second sec	
: =	2765	DISORDERS OF FLUID VOLUME DEPLETION	207		
12	2766	FLUID OVERLOAD	12		:
13	3490	REACTION TO SPINAL OR LUMBAR PUNCTURE	-23	PRPARED RY:	
71	3493	TOXIC ENCEPHLOPTHY	4	Department of the Army US Army Parient Administration	
15	7677	FUNCTIONAL DISTURBANCES FOLLOWING	13	and Biostatietice Activity BSHI-QBP	
16	5080	ACUTE PULMONARY MANIFESTATION FROM HADIATION	3		
11	1805	CHRONIC PULMONARY MANIFESTATION FROM RADIATION			
19	6615	DISEASE OF RESPIRA	2		†

1			
		TOP 587 DIXGNOSES WI HIGHEST FREQUENCIES	W11H ES
		- SAVO	\$
"DI AGNO	DIAGNOSIS TITLE (ICO-9)	1	HEAN
CARDID	CARDIDVASCULAR DISEASE, UNSPECIFIED	71 1178 16.	59
VOI UM	CONTUME DEPT FILEN	473	
P0510	POSTOPERATIVE INFECTION	440	00
STNGL UR INA	SINGLE LIVE BORN, HOSPITAL URINARY TRACT INFECTION, SITE UNSPECIFIED	27 232 8-59	6-13 8-59
4TH 0	TION OF PERINEUM	64	2.46
UTER	UTERINE LEIOMYUMA HEMATOR DO HEMATOWA FORBITCATING A PROFESSION	25 231 4	20°50
FAIL	2	177	89. 43
MULTIPLE	BURNS, 30 DECREE		96.89
A F	DIREK NONINFECTIVE GASTROENIERTITS AND CULTIFS	0.0	4.18
FETA	•	130	7.65
CANC	CANCEP BRONCHUS AND LONG UNSPECIFIED COMP OF INTERNAL PROCIHETIC DEVISE, IMPLANT AND GRAFF. NET	104	7.47
POIS	NING BY AKOMATIC ANALGESICS, OTHER	36	2.57
ATHE	ATHEROSCLEROSIS OF ARTERIES OF THE EXTREMITIES	14 478 34.14	14
UNSP	UNSPECIFIED VIAAL INFECTION	245	3.00
OTHE		۲.	3.21
CANCER	TO VALVE DISURDERS	15	90
POI	NG BY BENZODIAZEPINE-BASEO T		1.50
S N	INGUINAL HERNIA, W/O MENTION OF OBSTRUCTION OR GANGRENE	212	17.67
FOR	FORCEPS OR VENTOUSE-DELIVERY NOS	9.0	3.00 8.16
17		321-2	
ACUTE	101	546	36
210	DISEASES OF MITRAL AND ADRITC VALVES	62 662 01	06*62
-OTHER	INJURY-TO-PECVIC	34	
- I	MILD PRE-ECLAMPSIA	20	:43:
AND	ANDWALIES OF RELATIONSHIP OF JAW TO CRANIAL BASE		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
10	SY ANTIOLPRESSANTS	68	•
MEC	MECHANICAL COMPLICATION.GENITOURINARY DEVISE. IMPLANT.GRAFT	9 36 6	80 Pu
FR	FRACTURE OF NECK OF FEMUR, PERTROCHANTERIC, CLOSED	358	t, of
MA		98	1 P.
ACUTE	WITH GENERALIZE	7	a A Lauren Ca
STR	REACTION TO SPINAL OR LUMBAR FUNCTORE STRESS INCONTINENCE, FEMALE	1 78	10.50
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-	一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个		

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SIGNAL EVENIS FOR DETERMINATION OF CINPATIENT DEATHS, FORT SAMPLE, CV-19	INCIDENCE 06 CONE 111LE (1100-9)	E-COLT-INFECTION	PSEUDOMONAS INFECTION	DISORDERS OF FLUIC	FLUTO BYERLOAD	BANCES FULLOWING GANGES FULLOWING CONTROL SURGERY	TORY SYSTEM NOS	POSTGASTRC SYNDROMES	5679 - PERITONITIS NOS	TOMY MALFUNCTION	HEPAILTIS IN VIRAL BISEASE CLASSIFIED ELSEWHERE	FETAL+ NEWBORN	SUBDURAL (CEREBRAL HEMBORRHGE AT BIRTH	SEVERE ASPHYXIA,NB	ASPHYXIA NOS+ NB	MOUND INFECTON NEC	POTSONING, ARCHATIC	ANVERSE EFF
OMPLICATIONS OF	-91 FREGUENCY	crton	*	0F FLUID 5		01510R	A NOS	SURGERY 2	5 SAN S	ENTEROS	IN VIRAL 15.553FTED	SORN I DUE TO	PERRAL I	TAXIA,NB	35. NB	TON NEC	ARGMATIC I	EFFECTS-0F
MEDICAL CARE PROGRAM ID RU										PREPARED BY:	Department of the Army US Army Patient Administration Systems and Biostatistics Activity HSBI-QEP							
RUFTO6										***	ration Systems							

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NUMMER OF DEATHS AND BED DAYS BY UNDERLYING CAUSE. INPATIENTS WITH SIGNAL EVENIS FOR DETERMINATION OF COMPLICATIONS OF MEDICAL CARE SAMPLE ARMY MEDICAL TREATMENT FACILITY. CY 1982

TOP 49 DIAGNOSES WITH HIGHEST FREQUENCIES

		•		1700000	2
,	UNDERLY ING			DAYS	rs = 2
RANK	CAUSE	DIAGNOSIS TITLE (100-4)	DSPO	TOTAL .	MEAN
	001.4	ACHTE WYNCARNIAL INEAPCTION	o	199	22.11
_	0515	AY ATHERDSC	Ç	79	12.40
	9463		4	281	70.25
4	0965	AIRWAYS JBSTRUCTION.	3	113	54.15
8	7085	ASPHYXIA. NEWBORN	8	25	A.33
•	9935	9	3	125	41.67
_	1146	CARDIAC COMPLICATIONS DUE TO PROCEDURE	m	36	13.00
Œ	4039	NSIVE RENAL DISEASE, L	2	6.5	24.50
0	5993		~	21	10.50
10	7104		~	~	1.00
11	3940	MITRAL STENOSIS	~	7	7.00
12	3960	JF MITRAL	٠.	35	17.50
57	7446		2	11	5.50
14	5112	CIRRHOSIS	~	57	28.50
51.	7674		~	51	7.50
91	1440	CANCER OF FLOOR OF MOUTH, ANTERIOR PORTION	-	56	26.00
. 17	2001			20	20.00
81	3441	KHEUMATIC MITAAL TUSUFFICIENCY		01	16.00
61	1 749	CANCER OF SHEAST, FEMALE, UNSPECIFIED	-	p T	18.00
0 7 4	1623	۔		39	36.00
7	3942	S	-	-	1.00
. 22	1729	•			30.00
23	4275	CAHDIAC ARREST	-		35.00
54	4349	UCCLUSION OF CEREBRAL ARTERIES, UNSPECIFIED	_	23	9
57	4415	NEURY SM.	-		29.00
56	4954	-		28	28.00
. 27	1,98	MULTIPLE		27	27.00
87	6076	<u>a</u>		7.	12.00
62	5324	۲	-	7 [14.00
0.6	1629	•	-	70	70.00
٦;	1719	ا ب	 .	\$.	00.4
75 ,	6/05	-	- .	-	00.
33	5036	> :	 .	- -	00.1
35	1539	<u>ب</u> .	- -	- ~	00.
ر در :	5113	ALUGALIA LIVER DAMAGE NOS	٠.	2 2	000
200	1717	FAIGN NEL	. .	67	23.00
7	7641	E I MACGO	.	•	
£ (0,47	IAL CUSHION DIFFELIS	- , -	٠.	
A (403	AL STENDS SOF AURILL VALVE		9 6	0000
0,	5070			ζ-	00.47
7	063/	Ξ.	-	-	1.00
24	5324	DIVIDENAL ULCER, NOS	 .	؛ ٥	00.0
£ ,	5400	ACUTE APPEINICITIS WITH GENERALIZED PERITONITIS		F T	13.00 00.
5 7 7	2474	TELCUSPID VALVE DISCHRIPS. SPECIFIED AS NOVAREUMATIC	 .	,	00.4
;	9054	POISURING BY ARCHATIC ANALGESICS. OTHER	- 4 -	2 2	4.00
9	2000	KE FICULOS ARCIDA	-		2000
				-	OPENALED

PREPAINED LY:
Department of the Army
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or orientes Activity

INCIDENCE	STEWAL EVENTS FOR DETEXHINATION OF COMPL DISABILITY SEPARATIONS, FORF SAMPLE, CY INCLUDES CRO	COMPLICATIONS OF MEDICAL CARE	PROGRAM ID RUFTOG
2007 20	1111.6-1100-91	FREQUENCY	
1150	STAPH INFECTION		
5150	E COLT INFECTION		
- 9583	POST-TRAUMATIC MOUND INFECTON NEC		
9051	POISONING BY	1	
7670	POISONING BY		
7566	ADVERSE EFFECTS OF DRUGS NOS	1	
9970	CENTRAL NERVOUS SYS COMPLICATIONS DUE TO PROCEDURE	2	
2166	PERIPHERAL VASCULA"		
	COMPLICATIONS AF- FFCTING UTH SPECI- FIED BODY SYS NEC	1	
1466	HEMORRHAGE OR HEM- ATOMA COMPLICATING A PROCEDURE		
7866	ACCIDENTAL PUNCTURE OR LACERATION OF MINSTAL PROCEDURE		PREPAR on MY.
\$866	FOREIGN BODY LEFF		Department of the Aray US Aray Patient Administration Systems and Biostatistics Activities
	POSTUP INFECTION		нѕнт-фвр
8866	OTMER SPECIFIED COMPLICATIONS OF PROCEDURES NEC	1	
R666	OTHER TRANSFUSION REACTION		

DISABILITY SEPARATIONS AND BED DAYS BY UNDERLYING CAUSE. INPATIENTS WITH SIGNAL EVENTS FOR DETERMINATION OF COMPLICATIONS OF MEDICAL CARE SAMPLE ARMY MEDICAL TREATMENT FACILITY. CY. 1982

TOP 14 DIAGNOSES WITH

			HIGHEST FREQUENCIES	FREGUE	MC 1 E S
,	UNDERLY INS	(°2		0	DAYS
RAZ	CAUSE	DIAGNOSIS TITLE (ICO-9)	0860	TOTAL	MEAN
7	9463	MULTIPLE SPECIFIED BURNS, 30 DEGREE	m	549	143.00
~	1112	CARCER, CONNECTIVE, SOFT TISSUE, UPPER LIMB, INCLUDING SMOULDER	~	39	39.00
~	2000	RETICULOSARCOMA	-	16	91.00
4	1623	CANCER, BRONCHUS AND LUNG, UNSPECIFIED	-	95	26.00
ď	1522	BENIGN NEOPLASM. CRANIAL NERVES		140	140.00
•	2930	ACUTE CONFUSIONAL STATE .		126	126.00
-	2650	MYELDID LEUKEMIA+ ACUTE	-	7 1	14.00
60	5954	ACUTE SCHIZOPHRENIC EPISODE		63	63.00
•	4140	COHONARY ATHERUSCLERUSIS	-	17	17.00
01	5559	MEGIONAL ENTERITIS. SITE NOS	~	061	190.00
=	7159	OSTEGARTARUSIS, NOS		272	272.00
21 -	1221	INTERVERTEBRAL DISC DISCROER WITH MYELOPATHY		7	2.00
=	1478	CONGENITAL ANOMALY OF CIRCULATURY SYSTEM. NEC	=1	20	20.00
7	5562	SCHIZOPHRENIA. PARANDIO IYPE	-	5.7	57.00

"MEPSYGE BY:

58 Atmy Patient Administration Systems and biostatistics Activity Dayareant of the Army 48p-1866

1636 102.25

91

TOTAL

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SURGICAL PRUCEDURLS PERFORMED ON PATIENTS WITH SIGNAL EVENTS FOR DETERMINATION OF COMPLICATIONS OF MEDICAL CARE. SAMPLE ARMY MIE. 1982 (EXCLUDES ABSENT SICK, CRO CASES AND TREATED AND CURED.)

PROGRAM 10 RUFTO7

484 TOP SURGERIES

	484 TOP SURGERIES			!
	UP CUDE	TITLE (ICPM)	FREJUENCY	
-	1519	HAUTUISOTOPE SCAN. FUNCTION STUDY	524	
٠,	3619	DIAGNOSTIC ULTRA-	158	
n	5361	GYPASS ANASTOMOSIS FOR HEART REVASCU- LAMIZATION	136	
4	3440	COMPUTERIZED AXIAL IOMOGRAPHY OF HEAD	133	
Λ	1966	MONITORING FETAL HEART DURING LABOR	127	
٥	81/5	ALPAIR OTHER OB- STETRIC LACERATION	1115	
1	१७७३	UTHER FREE SKIN	107	
το	3443	SIMER COMPUTERIZED AXIAL TOMOGRAPHY	91	
•	5883	SURGICAL TUILET OF MUND OR INFECTED TISSUE	В О Я	
10	5121	LOW FORCEPS DELI- VERY W EPISIUTOMY	74	
Ĩ	5882	UTHER INCISION OF YEAR AND SURCU-		
21	50A3	191AL ARDOMINAL HYSTERECTOMY	99	
1.3	1272	LEVIRAL VENDUS PRESSURE MEASURE	99	
3	1528	INTRAVENDUS UP JGRAPHY	61 PRE 0ep	PREPARED BY: Department of the Army
1.5	6888	UTUER CATHETERI- ZATION OR CANHULA- TION OF VESSEL	Hen 64	ien ist

NUMBER OF DISPOSITIONS BY CLINIC SERVICE, ALL PATIENTS SAMPLE APMY MEDICAL TREATMENT FACILITY, CY 1982 (EXCLUDES CRO AND ABSENT SICK)

			IL EVENTS	
CLIVIC SERVICE	TOTAL DSPC	asea.	PERCENT	
TVTERNAL MEDICINE	1344	247	13•39	
CAPSIBLUSY	1513	78	5.16	
DERMATCLOGY	34	<u>i</u>	2.74	
ENDOCRINDLOGY	29	j	<u> </u>	
GASTRUENTERSLOGY	2024	93	4.84	
HEMATOLOGY	2	C	_	
NEPHROLOGY	52	12-	23.08	
NEUROLOGY	712	38	5.34	
ONCOLUGY	578	85	9.79	
PUL/UP RESP DISEASE	282	10	3.55	
RHEUMATULUGY	6	 		
ALLERGY-IMMUNOLOGY	1	0	_	
SURG-GENERAL	1974		8.51	
SURG-CARDID/THORAC	456	179	39.25	
SURG-NEUROLUGIC	334	17	5.09	
SURG-CRAL	177	37	20.90	
SURG-PEASTIC	256		3.13	
PROCTOLOTY	2	3	_	
URBERGY	342		6-53	
SURG-HAND	15	2	13.33	
SURG-PERIPHERAL VAS			12.70	
GYNECOLOGY	1355	170	12.55	
OBSTETRICS	31:1		17:57	
PEDIATRICS	925	118	12.76	
TORSERY THEWSURTS	1093		3.89	
ADDLESCENT PED	9	2	22.22	
UKTHOPEDIUS — — — ·	<u>ਾ ਦਾ ਨਿਲਵਾਦ ਦਾ ਦ</u>		5•92	
PODIATRY	د 10	5	5.53	
25YC#1: 12Y	230	10	4.24	
PTHALOMOLOGY	513	21	4 . € 5	
STORM INDUARYNODUOSY	-7-19-0 	38	4.87	-
OTHER (CODE XX)	235	24	10.21	
TOTAL	19566	1786	9.14	

ANNEX B
Ambulatory Care Database

Reproduced from Proceedings at the Seventh Annual Symposium On Computer Applications in Medical Care, Dayhoff, R.E., (Ed), Computer Society Press, 1983, pp 533-536

AMBULATORY CARE DATABASE

by Terry R. Misener, R.N., Ph.D.

Health Care Studies Division, USAHCS&CIA Fort Sam Houston, Texas 78234

Abstract

A six month project was undertaken to collect outpatient encounter data (demographic, workload, and diagnoses) at a community medical treatment facility. To capture data, the 13,000 patients seen each month, the clerical staff and primary care providers all completed portions of a "mark sense" form. Study results, lessons learned, and a conceptual plan for a future outpatient information system are reviewed.

Introduction

Providing outpatient health care for over twenty-two million beneficiaries per year, the US Army is one of the largest HMOs in the world. Although it has long been recognized that the Army's Inpatient Data System (IPDS) provides a wealth of information to carry out health service research and to assist in management decisions, outpatient data have been less abundant.

To document workload, limited outpatient reports are generated by the Army on a recurring basis. However, the reliability of the data and their usefullness has been questioned. While the outpatient's individual health record contains the normal information expected in any outpatient record, it has not been possible to obtain aggregate data for audits, to document individual health care providers' practice profiles, or to carry out epidemiological research.

Recognizing the need for an ambulatory care database (ACDB), the Surgeon General of the Army asked the US Army Health Care Studies and Clinical Investigation Activity, to examine the feasibility of implementing such a project. The study proposed to answer two questions: 1) Will the health care providers complete encounter data in addition to entries that they are required to make in the outpatient medical record, and 2) What types of reports are possible from these data?

<u>Limitations of the Study</u>

The resource constraints included both time and personnel. The study was to be completed by the end of FY 83. No full-time employees could be added for the study. Personnel were required to come from the Health Care Studies Division, the medical activity (MEDDAC) studied, and from

available data processing staff. It was determined that the data gathering tool needed to be provider centered. Any table look-ups required by the providers were to be kept at a minimum. Additionally, providers had to feel that the project was symbiotic, i.e., that they would gain something in return for their efforts. Computer terminals were not available in the clinics. Labor intensive keypunching was not acceptable as a data entry method. The outpatient encounter form could not exceed one page (8½ x 11°).

Study Methodology

Two low cost methods for data capture were examined: 1) optical character reading (OCR) and 2) optical mark sense reading (OMR). OCR error rates are high as those entering data do not write numerals in a standard fashion. The OMR hardware selected was the NCS Sentry 7001 table-top optical mark sense reader, chosen because of its compatibility with existing equipment within the command.

The site selected for the test was Redstone Army Arsenal, Alabama. This installation provided a MEDDAC of comparable size to another site which had been proposed for an OCR study. Redstone MEDDAC sees about 13,000 outpatients per month in the combined troop medical clinic, occupational health facility and the outpatient medical clinics. A significant factor in site selection was the expressed desire on the part of the staff to participate in the study.

The one page outpatient encounter form was developed by the investigator after consultation with other researchers, public health professionals, and primary providers at Redstone. The major data elements of the encounter form included: demographic data (including occupational)(Fig. 1),

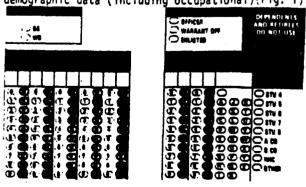


Figure 1

Best Available Copy

procedures performed, status for eligibility for care, referrals, and disposition (to include whether the diagnosis was job related), and diagnostic data. The overall needs of the Army andated that diagnostic information be a priority element in the database. Several outpatient diagnostic codes were reviewed and the International Classification of Health Problems in Primary Care (C-PPC-2) was selected. The codes were simple to use; had previously been used for a family practice database; and they were truncations of the ICD-9. The encounter form allowed the proviter to select one of 371 diagnostic codes as the primary reason for seeing a patient on a particular visit. One primary diagnosis was required and the provider was allowed to select up to five secondary diagnoses germane to a particular visit. Diagnoses" could be a sign, symptom, questionable laboratory findings, or a series of wellness priented reasons for care. (Fig. 2.)



Figure 2

Along with the demographics, the diagnostic information provides the heart of the epidemiological data. These data also provide the MEDDAC the ability to carry out peer review and retrospective chart audits in a valid and objective manner. The basis for epidemiological studies by the occupational health physician are a function of occupational series, codes, and the employee's building location. Also, the form allowed for documentation when more than one provider saw a patient. For example, if a patient were to be

first seen by a physicians' assistant, a nurse practitioner, or a general medical officer and then were to be subsequently seen by another provider (e.g., a specialty physician), both individuals would be credited with having seen the patient.

Finally, it should be noted that several of the elements on the sample encounter form reflected the unique requests of the studied medical treatment facility. An example is the field indicating whether an exam was chaperoned.

A one-day pilot test of the instrument was carried out at an independent Army treatment facility. Twenty nurse practitioners used the proposed encounter form to note any difficulty in tracking or use of the form. Subsequently, minor form and instruction sheet changes were made.

Prior to implementation of the study, three sets of instructions were prepared, one set for each of the following: providers, patients, and clerical staff. Patients were asked to complete most of the demographic data which was then checked for completeness and accuracy by the clinic staff. The clinic staff entered the clinic identifier, family member prefix (to identify the household position of the patient). appointment status, time in and time out. The remainder of the form was completed by providers and was monitored for completeness by the clerical staff. The patient portion of the form could be completed in about two minutes. The provider data was entered in about 30 seconds, especially after the providers became familiar with frequently used diagnoses. Clerical staff needed about 30 seconds to check and complete each form. Staff training began two weeks before the collection of hard data. This gave personnel the opportunity to use forms in a practice setting.

On November 1, 1982 the six months of data collection began. It was expected that about 60,000 forms would be completed. By the end of March, over 55,000 forms were entered into the database. After the encounter forms were completed and checked for obvious errors, they were taken to a central point in the administrative department of the MEDDAC where one of three persons had been trained to process the records. Up to 500 forms per hour can be read by the particular table top reader being used for the test. The first time records were read they were scanned only; that is, errors were identified by a program in the edit routine. Forms containing errors were returned to the clinic staff for correction and re-editing. Error-free forms were read by the scanner and output onto seven inch magnetic tape. Data could be transferred on-line to a host computer or off-loaded onto a microcomputer; however, the tape method was chosen to be compatible with the goal of decentralization and minimal cost.

The tapes were then transferred to the Best Available Copy in a completely decentralized installation computer facility where they were mailed or sent via telecommunications to Fort Sam

fashion; however, fir the six month study, it was not reasonable to request the post to increaso its workload. Instead, it was decided that data analysis and report generation would take place in the principal investigator's office.

Data received at the Fort Sam Houston computer facility comprised a 696 column record. A compression program was written to turn out a more parsimonious 220 character record which was then merged with SPSS (Statistical Package for the Social Sciences) for recort generation and data manipulation. SPSS is not the ideal method for data analysis; nowever, it was an available package minimizing the need for programming. Ideally, a local continuous would be written compatible with the incrudibual installation host computer so that recorts and data manipulation could be carried out on site.

Results

One of the hajam concerns at the outset of the study was that the providers would not complete the forms as requested. At the end of the study, with over 55.000 records in the database, the encounter forms are being completed as a result of command econasis and provider derived benefits. The second study question was: what reports can be generated from the data? Examination of the data collection forms demonstrate the potential reports and tables that can be generated. Both aggregate and individual provider reports have been developed. Since provider participation was of utmost importance and because they had been promised that they would receive monthly profiles of their practice, this was the first priority.

Reports were prepared on a monthly basis for each provider including physicians, social workers, nurses, and medics working in the screening clinics. The reports include: a list of all primary diagroses and the frequency of each diagnoses, procedures reported, demographic data to include age categor, by diagnoses, beneficiary status of patients, the number and types of exams done, average time per patient seen, and a list of secondary diagnoses.

Using a diagnostic cluster technique which is a further truncation of the ICHPPC-2 codes, it is possible to racidly assess the diagnoses/problems which consume the majority of outpatient services (Schneweiss et al., 1983). For example, 20 diagnostic clusters account for 75.2 of all outpatient encounters at Redstone during January, 1983.

Additionally, monthly aggregate reports useful to management are prepared and include: the number of patients seen in each clinic, the number of forms completed by each provider, the average time a patient spends in each clinic, the information for the medical summary report, and the number of exams chaperoned per clinic. Individual requests for unique reports have also been handled. For example, the occupational health physician was interested in the number of job related physical examinations performed.

Ciscussion

Several lessons have been learned from the test. From the outset the procedures list was recognized as far from complete: nowever, it contained those procedures the medical staff at the study site stated they wanted to capture. Having a prepared menu of procedures did not require the provider to look up entries from a code, table. However, experience has shown that about 25 of the procedures are reported in the lither" category which is not acceptable. In any future form design it would be advisable to include a list of common procedures, and to also provide spaces where less common procedures could be entered from tables, therefore, providing the best of both methods.

No one tage form can meet the needs of every clinic. It is suggested that several forms be developed for differing specialties e.g., pediatrics, obstetrics, occupational redicine, walk-in clinic, etc.).

For the system to work, the need for command emphasis is advious. Less obvious is the need for public relations and marketing with providers. It cannot be everstated that for the system to be functioning at its optimal level, it must be symbiotic. Providers must believe that it has something to affer to them.

In the future, it would be desirable that a system such as this be interposed with a central appointment system. When a patient makes an appointment, the system would do three things: 1) create a chart pull-list, 2) create a problem list which would include the patient's list of current problems along with the first date they were seen for the profilem; how many times they had been seen for the problem; and when they were seen last for the problem, 3) an encounter form could be 'presiugged' with data from the registered patient's database preciuding the regathering of known information. However, a completely manual system such as that which has been reported here is needed for back-up when the system is 'down" and for the walk-in patient as well as patients who are seen outside the main treatment facility in a remote site clinic or mobile health delivery unit.

Conceptually, it would also be possible for the system to be connected to a word processing program where; the provider's routine medical record entry could be generated from the encounter form. Additional narrative could be dictated and merged with the encounter data using the lithicode on each encounter form.

Summary

The overall objectives of the study have been met. It has been demonstrated that the providers will complete their portion of the encounter form. The data are additable and provide the basis for peer review. Secondly, the number of reports that can be developed from the data are limited only by the user's tragination. It has been recommended that this inexpensive, and reliable data

collection methodology be implemented in a worldwide basis by the Army. In fact, members of the Air Force and Navy have also seen the benefits of such a system for use on a tri-service level.

References

- 1. ICHPPC-2: International Classification of Health Problems in Pritary Care, 2d ed. New rork, Exford University Press, 1979.
- 2. Schneeweiss, et al. Diagnostic Clusters: A New Tool for Analyzing the Content of Ambulatory Medical Care. Medical Care 1983; 21:105.

Best Available Cor

ANNEX C

Extract of Clinical Record QA Program, Womack Army Community Hospital

PREFACE

The overall goal of the proposed system is to insure accomplishment of the objectives of Quality Assurance in the most cost-effective and efficient manner.

The current program involves the review of clinical records of discharged patients by medical record analysts using one set of predetermined criteria (Surgical Case Review), personal knowledge and judgement. Selected inpatient clinical records are combined with randomly retrieved and/or selected outpatient treatment/health records for Quality Assurance review by all care providers (physicians, nurses, therapists, etc). All death cases, complications, and hospital infections are routinely forwarded for committee review (inpatient and outpatient records reviewed each month total 650-700). There is presently no capability to consistently identify patterns of care by either area of care, practitioner or problem.

Womack Army Community Hospital objectives include limiting the total number of clinical records to be reviewed by providers to those that reveal some item of previously designated interest. Achievement of this objective would greatly reduce the health care provider's time spent in potentially nonproductive record review. More practical and efficient use of provider time in problem identification, assessment and resolution would enhance patient care and should improve the actual assessment of care extended by individual providers. Another objective of the proposed system is to create a historical data base from which trends, patterns of care, admitting and discharging habits and other data can be retrieved.

This program will support all established hospital committees, as well as proposed indices. The program will also be useful for research purposes. A complete sting is attached.

The data resulting from the Clinical Record Quality Assurance Program is a tool. It does not in and of itself solve problems; it provides clues to problems and/or solutions. Patient care is exceedingly complex and such data can be misleading if not thoroughly analyzed by appropriate staff personnel.

COMMITTEES AND INDICES SUPPORTED BY CLINICAL RECORD QUALITY ASSURANCE PROGRAM

- 1. Physician's Index
- 2. Capture and monitoring of patient care elements
- 3. Consultations accomplished by Service/Department and/or Clinician COMMITTEES ASSISTED:
 - Drug utilization/antibiotic review
 - 2. Surgical case review
 - 3. Transfusion/blood utilization review
 - 4. Each Service/Clinic/Department Medical Care Evaluation Committee (WACH = 28 in number not including outpatient areas)
 - 5. Risk Management
 - 6. Safety Committee
 - Hospital Mortality/Morbidity Committee(s)
 - 8. Credentials
 - 9. Medical Intensive Care/Surgical Intensive Care Unit Committees
 - 10. Utilization Review Program
 - 11. Infection Control Committee
 - 12. Respiratory Care
 - 13. Department of Pathology
 - 14. Radiology Service
 - 15. Medical Record Committee
 - 16. Patient Administration Division Quality Assurance (Medical Record, analysts)
 - 17. Hospital Medical Care Evaluation Committee (Accepts and reviews minutes from other committees; recommends action to Executive Committee)
 - 18. Executive Committee

AVAILABLE REPORTS

NOTE: Individual reports available monthly, quarterly, semiannually or annual on request.

Patients are identified by register number. Most reports will be furnished to involved Services and

Departments

DISTRIBUTION: NEED TO KNOW

RE	PORT	DIS	STRIBUTION
MOM	NTHLY		
1.	Listing of death cases	1.	C, CS 2. Chiefs of involved Svc/Depts 3. PAD
2.	Listing of hospital acquired infections	1.	C, CS 2. Chiefs, involved Svc/Depts 3. PAD
3.	Listing of hospital related complications	1.	C, CS 2. Chiefs, involved Svc/Depts 3. PAD
4.	Listing of documented evidence of patient dissatisfaction	1.	C, CS 2. Chiefs, involved Svc/Depts 3. PAD
5.	Listing of patients leaving AMA	1.	C, CS 2. Chiefs, involved Svc/Depts 3. PAD
6.	Surgical Case Review	1.	Chairman, Tissue Committee 2. PAD
7.	Report of Informed Consent	1.	C, CS 2. Chiefs, involved Svc/Depts 3. Chairman, Risk Management Committee 4. PAD
8.	Blood Utilization Review	1.	Chairman, Transfusion Committee 2. PAD
9.	Listing of patients readmitted for same/related diagnosis	1.	
10.	Listing of patients with documented alcohol/drug/psychosis/combination use on admission	1.	C, CS 2. Chiefs, involved Svc/Dept 3. Chief, Operation
	<u>Subcategories</u>		Awareness 4. C, P&N (if not included in #2)
	Number of cases each Svc/Dept Number of cases each nursing unit Number of cases - alcohol Number of cases - drug Number of cases - psychosis Number of cases - combination		5. PAD
	Comparison with discharge status Breakdown comparison with Operation Awareness consult	atio	ns (#25)

Breakdown comparison with Operation Awareness consultations (#25)

REPORT	DISTRIBUTION
11. Listing of patients managed with seclusion and/or restraints	1. C, P&N 2. PAD
Compare this report with previous report	
12. Listing of consultations	 C, CS 2. Chiefs, involved Svc/Dept
By Svc/Clinic By physician	3. PAD
 Listing of patients (register numbers) admitted through Emergency Room 	1. C, EMS 2. PAD 3. C,CS
14. Listing of patients (register numbers) when Emergency Room diagnosis and final diagnosis do not agree	1. C, CS 2. C, EMS 3. PAD
NOTE: In progress:retrieval of time of day of arrival in FR compared to time of admission	
 Listing of register numbers lacking comprehensive progress note 	 C, CS 2. Chiefs, involved Svc/Dept 3. PAD
SVC/DEPT	J. PAU
MD	
16. Listing of patients (register numbers) of newborn* infants with Apgar scores less than	1. C, Peds 2. PAD
17. Listing of patients (register numbers) of newborn infants requiring use of oxygen*	1. C, Peds 2. PAD
* Newly born this facility this admission	•
QUARTERLY	
Any of the above are available quarterly as well as month	<u>ער</u> י
18. Listing of register numbers of hospital profile for high risk diagnoses	

QUARTERLY

REPORT

DISTRIBUTION

19. Listing of patients admitted to Special Care units

1. C, CS 2. Chiefs, involved Svc/Dept 3. PAD

Breakdown by unit to which admitted:

Admitting diagnosis Final (discharge) diagnosis Number of days in unit Number of days hospitalized

Note: The above captured and reported by register number

Subcategory by request

Cases by Svc/Dept Cases by MD Types of Management Services Laboratory/radiology studies Medications Surgical procedures performed

- 20. Listing of unexpected transfers from general care bed to specific special care unit
- 1. C, CS 2. Chiefs, involved Svc/Dept 3. PAD

1. C, CS 2. Chiefs, involved Svc/Dept

3. C, Pharmacy 4. Requester 5. PAD

SPECIAL - UPON REQUEST REPORTS

- 21. Antibiotic Listing
 - a. specific antibiotic
 - b. multiple antibiotic use on same admission

by: Service/Department

Physician Diagnosis

Cultures obtained or not obtained

Operative procedure

- 22. Review of utilization of specific medications/ laboratory procedure/radiology/nuclear medicine procedura
- 1. 0, CS 2. Requester 3. PAD
- 23. Comparison of length of stay (LOS) by diagnosis/ procedure Svc/Dept/Md by diagnosis

UPON REQUEST REPORTS SPECIAL

REPO	RTS	DIS	TRIBUTION
24.	Comparison of consultations obtained to final diagnosis	1.	C, CS 2. Requester 3. PAD
	final diagnosis to number of ancillary svc consultations		
25.	Comparison of pre-operative days by: Service Diagnosis/operative procedure Physician	1.	C, CS 2. Requester 3. PAD
26.	Review of medications that require laboratory follow up	1.	C, CS 2. Requester 3. PAD 4. C, Pharmacy
27.	Review of medications which require dosage based on age/weight	1.	C, CS 2. Requester 3. PAD 4. C, Pharmacy
28.	Anesthesia Review	1.	C, CS 2. Chiefs,
	by type of anesthesia operative procedure complication		involved Svc/Dept 3. PAD
NOTE	Any item of interest captured by Quality Abstract may be compared and displayed	Assurance	·

Any Svc/Dept may review and evaluate laboratory/ radiology studies performed by diagnosis

Example: A specific diagnosis is selected and a profile is displayed showing specific studies obtained

> A review of admitting blood pressure; highest blood pressure reading; compare if medication given; what is diagnosis?

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INPATIENT TREATMENT RECORD CHECKLIST

PATIENT'S	NAME:	SSAN:	DISCHARGED:
TO DR		DATE:	· ·
			
	NARRATIVE SUMMARY REQUIRES	DICTATION. DATE DI	CCTATED:
	INPATIENT TREATMENT RECORD		
	NARRATIVE SUMMARY (SF 502)	·	
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			CAME LONG STAY (4 DAYS OR MORE
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	DISCHARGE NURSING NOTE (SF	510) INCOMPLET	TE MISSING
	PATIENT DISCHARGE PLAN (DA	4700) INCOMPLET	TE MISSING
	CONSULTATION SHEET (SF 513)) REQUIRES SIGNA	ATURE COMPLETION
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	NURSING ASSESSMENT AND CARE	E PLAN (DA 3888 & 3888-1	I)INCOMPLETE MISSING
	OTHER (specify)		
			
	ATTENTION: MEDICAL REC	CORD TECHNICIAN - SEE	E REVERSE SIDE FOR

MEDICAL RECORD DOCUMENTS - THIS ADMISSION

	LABORATORY DATA	DATE	RADIOLOGY	DATE	OPERATION REPORTS
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REGISTER NUMBER	1
SEX	2
AGE	3
RACE	4
FAMILY MEMBER PREFIX AND SOCIAL SECURITY ACCOUNT NUMBER	5
DATE OF DISPOSITION	6
DATE ADMITTED	7
TOTAL DAYS THIS FACILITY	8
TOTAL BED DAYS THIS FACILITY	9
CLINICAL SERVICE	10
PHYSICIAN CODE	. 11
RESIDENT CODE	12
MEDICAL RECORD ANALYST	13
DIAGNOSIS CODES	14
CAUSE OF INJURY CODE	15
OPERATION CODE	16
PREOPERATIVE DAYS	17
ANESTHESIA	18
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OTHER LABORATORY STUDIES	63
OTHER MANAGEMENT	64
MEDICATIONS	65
INPUT CLERK	66

WOMACK ARMY COMMUNITY HOSPITAL FORT BRAGG, NORTH CAROLINA

CUSTOMER AUTHENTICATION SCREEN

Please Enter Your:		
Personal Identifier[)
Individual Password[1	

QUALITY ASSURANCE ABSTRACT UPDATE DATA ENTRY COMMAND SCREEN

The following commands are available:

- (A)DD Add new record to file
- (D) ELETE Delete record from file
- (C) HANGE Change an existing record
- (L) IST List an existing record
- (H) ELP List available commands
- (B)YE Stop processing file

Register Number is required for all commands except Help and Bye.

Enter command and Register Number:

Command [] Register Number []

QUALITY ASSURANCE ABSTRACT UPDATE SCRREN

PHYSICIAN ACTIVITY PROFILE

Information furnished by Clinical Record Quality Assurance Program in support of credentialling.

- 1. Total admissions/dispositions
- 2. Total operative procedures performed
- 3. Total consultations answered
- 4. Total consultations requested
- 5. Total complications
- 6. Total nosocomial infections
- Total cases treated with transfusion
 Number of units transfused/type of transfusion
- 8. Total death cases
- 9. Total patient days
- 10. Average length of stay

Items are available in register number listing.

NOTE: A separate computer program has been recommended to capture number and type of continuing medical education hours approved and obtained by C, CS. This separate program may also capture required meeting attendance and number of delinquent medical records.

PHYSICIAN ACTIVITY PROFILE

PHYSICIAN:			SSA	N:	
	1982	1983	1984		
CLINICAL					
TOTAL PROCEDURES PERFORMED					
TOTAL CONSULTATIONS ANSWERED					
TOTAL PATIENTS WITH COMPLICATIONS					
TOTAL PATIENTS WITH HOSP INCURRED INFECTIONS					
TOTAL PATIENTS TRANSFUSED					
TOTAL DEATHS					
				4	
TOTAL ADMISSIONS					
TOTAL PATIENT DAYS					
AVERAGE LENGTH OF STAY					
TOTAL/MONTHLY AVERAGE SPECIAL: DELINQUENT M.RECORDS					
CATEGORY 1 CME HOURS					
REQUIRED MEETING ATTENDANCE RECORD					

ANNEX D

Extract of Quality Assurance Monitor, The Professional Activity Study

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Background Comments on Monitoring

- 1. Whatever the motivations for implementing quality assurance techniques for improved patient care, these motivations apply to all of the patients on a continuing basis; i.e., "all of the time"...exception: if meeting Medicare-Medicaid UR or PSRO regulations is only motivation.
- 2. Only a small fraction of the patients can be evaluated by MCE studies if the traditional diagnosis and operation grouping is employed.
- 3. Monitoring (screening) techniques provide the only currently available approach to review of all patients.
- 4. Definition of a monitor: A monitor is a tool for assessing the quality of care of all patients on a continuing, repetitive basis.
- 5. Purpose of a monitor:
 - a. Review of care of all patients
 - b. Rational approach to selection of topics for in-depth studies
 - c. Automatic follow-up on quarterly or semiannual basis
- 6. The specifications for a monitor:
 - a. Groupings which cover all patients
 - b. Appropriate criteria (monitor parameters) for each group
 - c. Hospital's own performance for each parameter
 - d. Basis for comparison
 - 1) To standards
 - a) . suggested by specialty societies
 - b) established by the individual hospital
 - 2) To performance of other hospitals
 - a) norms (median performance)
 - b) "Thresholds for investigation" -- top 10% of hospitals
 - 3) To a hospital's own past performance
- .7. QAM has the following levels of grouping

Primary

Hospital-wide Clinical Service Operated Patient

Secondary

All patients

Patients with abnormal findings (five)

Patients with selected therapies (five)

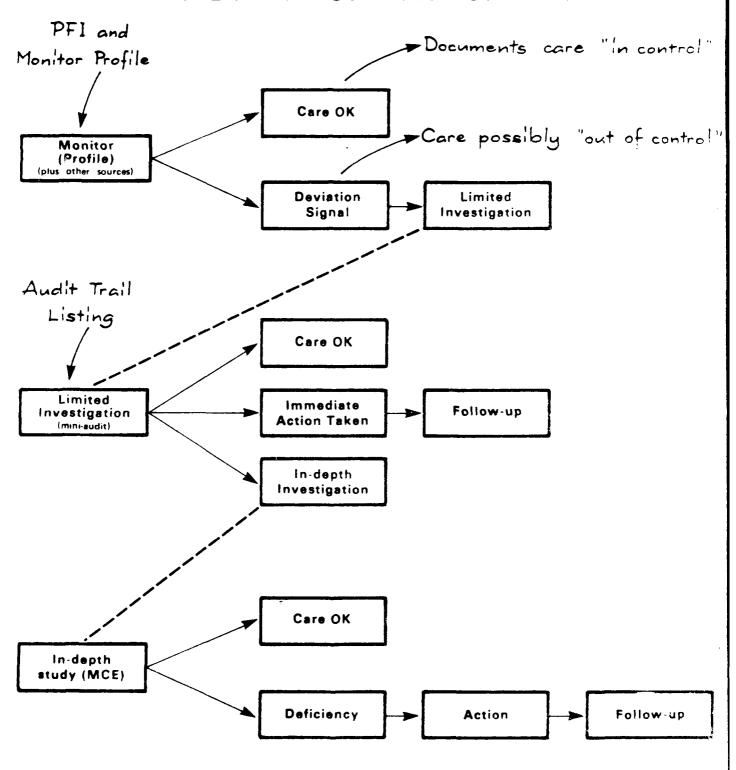
Frequent diagnoses and operations (96)

- 8. Criteria for diagnosis and operation specific groups are selected from the following areas, which comprise the seven major types of criteria for balanced monitoring or a balanced medical audit study:
 - a. Validation of diagnosis
 - b. Justification for admission
 - c. Justification for special procedures (surgery or special investigations)
 - d. Cutcomes
 - e. Critical investigations
 - f. Critical management
- ED-D1360 g. Other indicators

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Special QAM Features (using matching data bases)

I INDEX

Fatality Index = Actual Deaths *

Notice to deaths are calculated by matching each case in your patient group against a data base of 12,000,000 cases (about 300,000 deaths) to attermine likelihood of death of each patient. Sum of all "likelihoods" equals "Expected deaths."

Values above 1.00 indicate that there were more deaths in your patient group than would have been expected based on your particular case mix. Conversely, values below 1.00 indicate that there were fewer deaths than might have been expected from the case mix in your group.

It is unlikely that the test is sensitive to the degree that small veriations merit further investigation. We would urge investigation of indexes above 1.25 or below .75 (25% more or fewer deaths than expected). Disregard indexes of 0.00 except in the rare group where deaths would almost invariably be expected, e.g., acute myocardial infarction.

LENGTH OF STAY SIGNIFICANCE TESTS

"High" or "Low" for length of stay is printed after the median stay figure for a group if applicable. Each patient is matched against the appropriate median stay in the appropriate regional data base. If a statistically significant number of cases are above or below their respective medians, a "high" or "low" prints.

No "high" or "low" means that differences are not statistically signifibuilt or fewer than six matchable patients are in the group. Deaths, transfers to another hospital, and patients leaving against medical advice are not matched.

CHARGE INDEX C.

Charge Index = Actual charges Expected charges

The above ratio is a simplification of the explanation found on the back of the Monitor Profile forms in the last column.

Indexes above 1.00 indicate that your hospital is charging more than would be expected based on relative charges of other hospitals in the data base (this group is subsidizing other patients in your hospital), or your hospital is providing more care (consuming more resources) than is being provided for matching patients in the data base. Values above 1.20 or below .80 probably merit further investigation.

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PATIENT GROUPS, BASIC STATISTICS, AND CRITERIA

The Quality Assurance Monitor displays hospital performance in 167 patient groups. Included are 800 items of basic, descriptive information and 789 criteria including suggested standards. These groups, basic statistics, and criteria are distributed as follows:

QAM Report (1)	Number of Groups (2)	Total Statistics (3)	Total Criteria (4)
Hospitalviide	11	31	30
Pediatric Medicine	11	2 9	31
Adult Medicine	1 1	29	34
Surgery	11	29	31
OB-Gyn	12	34	39
Newborn	2	13	11
Psychiatry	11	30	33
Diagnosis Groups (any department)	73	513	446
Operated Patients	6	30	30
Procedure Groups (any department)	19	62	104
Totals	167	800	789

At the head of each QAM group on the Monitor Profile are displayed certain basic, descriptive statistics for which no standards are suggested. The following 22 items of information when applicable and appropriate are displayed for each of the 167 patient groups:

- 1. Total patients
- 2. Fatality index
- 3. Mortality rate
- 4. Autopsy rate
- 5. Average stay
- 6. Median stay
- 7. Percent male
- 8. Average charge
- 9. Charge index
- 10. Average charge per resource need unit
- 11. Percent who left against medical advice
- 12. Percent of all patients for this report
- 13. Percent over age one given only one unit of blood
- 14. Percent transfused (excluding acute blood loss)
- 15. Percent delivered by cesarean section
- 16. Percent with peritonitis
- 17. Percent with congenital anomaly
- 18. Percent with consultation
- 19. Percent given anxiolytics
- 20. Percent given neuroleptics
- 21 Perinatal fatality index
- 22. Neonatal fatality index

CRITERIA LIST

All criteria are available from PAS
Data for shaded criteria are drawn from the Quality
Control Data Set, and are therefore **not** available to hospitals
submitting only the Basic Data Set

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OR C'HER URINARY SYSTEM EVALUATION 100 OOG PATIENTS WITH URINE POSITIVE FOR SUGAR 1. % WITH REPEAT URINE SUGAR TEST 100 2. % WITH BLOOD SUGAR TEST 100 OOT PATIENTS GIVEN ANTICOAGULANTS 100 2. % WITH COAGULATION TEST 100 3. % WITH STOOL FOR BLOOD 100 OOB PATIENTS GIVEN ANTIBIOTICS 100 2. % WITH INDICATION 100 2. % WITH SELECTED INFECTIONS WITH C. & S 100 OOG PATIENTS GIVEN DIURETICS 100 OOG PATIENTS GIVEN DIURETICS 100 OOG PATIENTS GIVEN DIURETICS 100 1. % WITH INDICATION 100 2. % WITH INDICATION 100 2. % WITH WEIGHT RECORDED 100	005 PATIENTS WITH URINE POSITIVE FOR PROTEIN	
1. \$ WITH REPEAT URINE SUGAR TEST 100 2 \$ WITH BLOOD SUGAR TEST 100 OOT PATIENTS GIVEN ANTICOAGULANTS 1. \$ WITH INDICATION 100 2 \$ WITH COAGULATION TEST 100 OOB PATIENTS GIVEN ANTIBIOTICS 1. \$ WITH INDICATION 100 2 \$ WITH SELECTED INFECTIONS WITH C & S 100 OO9 PATIENTS GIVEN DIURETICS 1. \$ WITH INDICATION 100 2 \$ WITH INDICATION 100 2 \$ WITH WEIGHT RECORDED 100		100
2 % WITH BLOOD SUGAR TEST 100 007 PATIENTS GIVEN ANTICOAGULANTS 1. % WITH INDICATION 2. % WITH COAGULATION TEST 100 3. % WITH STOOL FOR BLOOD 100 008 PATIENTS GIVEN ANTIBIOTICS 1. % WITH INDICATION 2. % WITH SELECTED INFECTIONS WITH C. & S. 1. % WITH SELECTED INFECTIONS WITH C. & S. 1. % WITH INDICATION 2. % WITH INDICATION 3. % WITH WEIGHT RECORDED 1. % WITH WEIGHT RECORDED 1. % WITH WEIGHT RECORDED	ODE PATIENTS WITH URINE POSITIVE FOR SUGAR	
1. \$ WITH INDICATION 2 \$ WITH COAGULATION TEST 3 \$ WITH STOOL FOR BLOOD OOB PATIENTS GIVEN ANTIBIOTICS 1 \$ WITH INDICATION 2 \$ WITH SELECTED INFECTIONS WITH C & S OO9 PATIENTS GIVEN DIURETICS 1 \$ WITH INDICATION 2 \$ WITH INDICATION 3 \$ WITH WEIGHT RECORDED 100 100 100 100 100 100	1. % WITH REPEAT URINE SUGAR TEST 2 % WITH BLOOD SUGAR TEST	
2 % WITH COAGULATION TEST 3 % WITH STOOL FOR BLOOD DOB PATIENTS GIVEN ANTIBIOTICS 1 % WITH INDICATION 2 % WITH SELECTED INFECTIONS WITH C & S DOD PATIENTS GIVEN DIURETICS 1 % WITH INDICATION 2 % WITH INDICATION 3 WITH WEIGHT RECORDED	007 PATIENTS GIVEN ANTICOAGULANTS	
2 % WITH COAGULATION TEST 3 % WITH STOOL FOR BLOOD 008 PATIENTS GIVEN ANTIBIOTICS 1 % WITH INDICATION 2 % WITH SELECTED INFECTIONS WITH C & S 100 009 PATIENTS GIVEN DIURETICS 1 % WITH INDICATION 2 % WITH INDICATION 2 % WITH WEIGHT RECORDED		100
1 % WITH INDICATION 100 2 % WITH SELECTED INFECTIONS WITH C & S 100 100 100 100 100 100 100 100 100 1		
2 % WITH SELECTED INFECTIONS WITH C & S 100 100 100 100 100 100 100 100 100 1	008 PATIENTS GIVEN ANTIBIOTICS	,
1 \$ WITH INDICATION 100 100 100 100 100 100 100 100 100 10		
2 % WITH WEIGHT RECORDED	009 PATIENTS GIVEN DIURETICS	

PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED
010. PATIENTS WITH OTHER DRUG THERAPY 1 % GIVEN HYPOTENSIVES WITHOUT HYPERT DX 2. % GIVEN CARDIOREGULATORS W/O CARDIAC DX 3. % GIVEN ANTIDIABETICS W/O DIABETIC DX 4 % GIVEN NEUROLEPTICS W/O MAJ PSYCH DX	0000
011. PATIENTS TRANSFUSED 1. % WITH INDICATION FOR TRANSFUSION 2. % WITH ANEMIA(EX 285.))GIVEN PACKED RBC 3. % WITH TRANSFUSION REACTION, 999 6-999 8	100
DEPT OF PEDIATHIC MEDICINE	
101 ALL PATIENTS, BASIC WOPKUP 1. % WITH URINALYSIS 2. % WITH HEMOGLOBIN OR HEMATOCRIT 3. % 1 YEAR AND OVER WITH ADM BP RECORDED 4. % WITH WEIGHT RECORDED 5. % MEETING MINIMUM LABORATORY REQUIREMENTS 6. % WITH SYMPTOM AS PRINCIPAL DIAGNOSIS 7. % WITH CBC HGB/HCT, WBC, DIFFERENTIAL	100 100 100 100 100 100 0-5 100
102 PATIENTS WITH ELEVATED ADM DIAS BP (EXC PREG) 1 % WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 2 % WITH URINALYSIS 3 % AGE '9+ GIVEN DIURETIC OR HYPOTENS'VE 4 % UNDER '0 YEARS WITH IVP, 87 73	100 100 100 100
103 PATIENTS WITH ADMISSION HGB<10GM% (HCT<30%) 1 % WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCY 2 % GIVEN GEN ANESTH WITHOUT TRANSFUSION	100 C
104 PATIENTS WITH ABNORMAL BLOOD SUGAR T OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE	100
105 PATIENTS WITH URINE POSITIVE FOR PROTEIN 1 % WITH DX OF KIDNEY DISEASE, REPEAT UA OR OTHER URINARY SYSTEM EVALUATION	100
106 PATIENTS WITH URINE POSITIVE FOR SUGAR 1 % WITH REPEAT URINE SUGAR TEST 2 % WITH BLOOD SUGAR TEST	100 100

	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS
_		
	107 PATIENTS GIVEN ANTICOAGULANTS	
2	% WITH INDICATION % WITH COAGULATION TEST	100
3	. % WITH STOOL FOR BLOOD	100
	108 PATIENTS GIVEN ANTIBIOTICS	
	% WITH INDICATION % WITH SELECTED INFECTIONS WITH C & S	100
	109 PATIENTS GIVEN DIURETICS	
	% WITH INDICATION	100
3		100
	110 PATIENTS WITH OTHER DRUG THERAPY	
,	S GIVEN HYPOTENSIVES WITHOUT HYPERT DX	0
2 3	X GIVEN CARDIGREGULATORS W/G CARDIAC DX X GIVEN ANTIDIABETICS W/G DIABETIC DX	0
4	1 GIVEN NEUROLEPTICS W/O MAJ PSYCH DX	°
	11' PATIENTS TRANSFUSED	
!	X WITH INDICATION FOR TRANSFUSION X WITH ANEMIA-EX 285 1)GIVEN PACKED RBC	100 100
3	T WITH TRANSFUSION REACTION, 999.6-999.8	0
_	DEPT OF MEDICINE	
	201 ALL PATIENTS, BASIC WORKUP	
1	% WITH URINALYSIS % WITH HEMOGLOBIN OR HEMATOCRIT	100
3	I 1 YEAR AND OVER WITH ADMISSION BP RECORDED	100 100 100
5	I MEETING MINIMUM LABORATORY REQUIREMENTS	100
8		100 100
10	. % WITH BLOOD SUGAR TEST . % WITH NITROGEN DERIVATIVE TEST	100
	202 PATTENTS WITH ELEVATED ADM DIAS BP (EXC PREG)	
2	% WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE % WITH URINALYSIS % AGE '9. GIVEN DIURETIC OR HYPOTENSIVE	100
4	A WITH ECG	100
	203 PATIENTS WITH ADMISSION HOS (10 GM % (HCT (30 %)	
1	I WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCY I given gen anesth without transfusion	100
2	% GIVEN DEN ANESTH WITHOUT TRANSFUSION	0
	304 BATISHTS ULTU ARMONAL BLOOM SUIVAR	
	204. PATIENTS WITH ABNORMAL BLOOD SUGAR	
1	E OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO MAD A GTT OR REPEAT BLOOD GLUCOSE	100
	!	į

PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS
205 PATIENTS WITH URINE POSITIVE FOR PROTEIN	
1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION	100
206 PATIENTS WITH URINE POSITIVE FOR SUGAR	
1. % WITH REPEAT URINE SUGAR TEST 2. % WITH BLOOD SUGAR TEST	100 100
207. PATIENTS GIVEN ANTICOAGULANTS	
T WITH INDICATION 2 % WITH COAGULATION TEST 3. % WITH STOOL FOR BLOOD	100 100 100
208. PATIENTS GIVEN ANTIBIÖTICS	
1. % WITH INDICATION 2 % WITH SELECTED INFECTIONS WITH C & S	100
209. PATIENTS GIVEN DIURETICS	
'. % WITH INDICATION 2. % WITH WEIGHT RECORDED 3. % WITH ELECTROLYTE DETERMINATION	100 100 100
210 PATIENTS WITH OTHER DRUG THERAPY	
). % GIVEN HYPOTENSIVES WITHOUT HYPERT DX 2. % GIVEN CARDIOREGULATORS W/O CARDIAC DX 3. % GIVEN ANTIDIABETICS W/O DIABETIC DX 4. % GIVEN NEUROLEPTICS W/O MAJ PSYCH DX	0000
211 PATIENTS TRANSFUSED	
1. X WITH INDICATION FOR TRANSFUSION 2. X WITH ANEMIALEX 285.1)GIVEN PACKED RBC 3. X WITH TRANSFUSION REACTION, 989.6-999.6	100 100 0
DEPT OF SURGERY	
301 ALL PATIENTS, BASIC WORKUP	
1. X WITH URINALYSIS 2. X WITH HEMOGLOBIN OR HEMATOCRIT 3. X 1 YEAR AND OVER WITH ADM BP RECORDED 4. X WITH RECORDED 5. X MEETING MINIMUM LABORATORY REQUIREMENTS 6. X WITH SYMPTOM AS PRINCIPAL DIAGNOSIS 7. X AGE 40+ WITH RECTAL EXAM	100 100 100 100 100 0.5 100
302 PATIENTS WITH ELEVATED ADM DIAS BP (EXC PREG)	
1. I WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 2 I WITH URINALYSIS 3 I AGE 19+ GIVEN DIURETICS OR HYPOTENSIVES 4 I WITH ECG	100 100 100 100
303 PATIENTS WITH ADMISSION HORKID GM % (HCT<30%)	
* % WITH BLEED NO HEMOLYSIS, ANEMIA, OR MAL HANCY 2 % GIVEN GEN ANESTH WITHOUT TRANSFUSION	100 0

	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED	
	304. PATIENTS WITH ABNORMAL BLOOD SUGAR	 	4
1	T OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GIT OR REPEAT BLOOD GLUCOSE	100	
	305 PATIENTS WITH URINE POSITIVE FOR PROTEIN		
1	WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION	100	
	306 PATIENTS WITH URINE POSITIVE FOR SUGAR		
2	% WITH REPEAT URINE SUGAR TEST % WITH BLOOD SUGAR TEST	100 100	
	307. PATIENTS GIVEN ANTICOAGULANTS		
1 2 3.	% WITH INDICATION % WITH COAGULATION TEST % WITH STOOL FOR BLOOD	100 100 100	
	308. PATIENTS GIVEN ANTIBIÖTICS		
1 . 2	# WITH INDICATION # WITH SELECTED INFECTIONS WITH C & S	100 100	
	309 PATIENTS GIVEN DIURETICS		
1 . 2 . 3 .	% WITH WEIGHT RECORDED	100 100 100	-
	310. PATIENTS WITH OTHER DRUG THERAPY		
2 3 4.	GIVEN HYPOTENSIVES WITHOUT HYPERT DX GIVEN CARDIGREGULATORS W/O CARDIAC DX GIVEN ANTIDIABETICS W/O DIABETIC DX GIVEN NEUROLEPTICS W/O MAJ PSYCH DX	0000	
	311. PATIENTS TRANSFUSED		
2	% WITH INDICATION FOR TRANSFUSION % WITH ANEMIA(EX 285 1)GIVEN PACKED RBC % WITH TRANSFUSION REACTION, 999.6-999.8	100 100 0	
	DEPT OF OB-GYN		4
	401. ALL PATIENTS, BASIC WORKUP	100	
3. 4	% WITH HEMOGLOBIN OR HEMATOCRIT % 1 YEAR AND OVER WITH AOM BP RECORDED % WITH WEIGHT RECORDED % MEETING MINIMUM LABORATORY REQUIREMENTS % WITH SYMPTOM AS PRINCIPAL DIAGNOSIS % AFEBRILE WITH LATER FEVER	100 100 100 100 100 0-5 0	
	40' A ALL OBSTETRICS PATIENTS, BASIC WORKUP		
5 6	% WITH URINALYSIS # WITH HEMOGLOBIN OR HEMATOCRIT # 1 YEAR AND OVER WITH ADM BP RECORDED # WITH WEIGHT RECORDED # MEETING MINIMUM LABORATORY REQUIREMENTS # WITH SYMPTOM AS PRINCIPAL DIAGNOSIS # AFEBRILE WITH LATER FEVER	100 100 100 100 100 0-5	

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2. % WITH MEMOSLOBIN OR HEMATOCRIT 3. % 1 YEAR AND OVER WITH ADM BY RECORDED 4. % WITH WEIGHT RECORDED 5. % MEETING MINIMUM LABORATORY REQUIREMENTS 6. % WITH SYMPTOM AS PRINCIPAL DIAGNOSIS 7. % WITH PELVIC EXAM 8. % AFEBRILE WITH LATER FEVER 402. PATIENTS WITH ELEVATED ADM DIAS BY (ENC. PRES) 1. % WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 2. % WITH USINALYSIS 3. % AGE 19+ GIVEN DIURETIC OR HYPOTENSIVE 403. PATIENTS WITH ADMISSION HOB 404. PATIENTS WITH ADMISSION HOB 5. % WITH ECG 405. PATIENTS WITH ABNORMAL BLOOD SUGAR 6. % OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 1. % WITH BLOOD SUGAR TEST 1. % WITH BLOOD SUGAR TEST 2. % WITH BLOOD SUGAR TEST 3. % WITH BLOOD SUGAR TEST 407. PATIENTS WITH URINE POSITIVE FOR SUGAR 1. % WITH REPEAT URINE SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS 1. % WITH INDICATION 2. % WITH STOOL FOR BLOOD	100 100 100 100 100 100 100 100 100 100
2. % VITH MEMOGLOBIN OR MEMATOCRIT 3. % I YEAR AND OVER WITH ADM BP RECORDED 4. % MITH WEIGHT RECORDED 5. % MEETING MINIMUM LABORATORY REQUIREMENTS 6. % WITH SYMPTOM AS PRINCIPAL DIAGNOSIS 7. % WITH PELVIC EXAM 6. % AFEBRILE WITH LATER FEVER 402. PATIENTS WITH ELEVATED ADM DIAS BP (EYC PRE3) 1. % WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 2. % WITH URINALYSIS 3. % AGE 19-0 GIVEN DIURETIC OR HYPOTENSIVE 403. PATIENTS WITH ADMISSION HOBE(10 GM % (HCT<00%)) 1. % WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCE 2. % GIVEN GEN ANESTH WITHOUT TRANSFUSION 404. PATIENTS WITH ABNORMAL BLOOD SUGAR 1. % OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 1. % WITH REPEAT URINE SUGAR TEST 2. % WITH BLOOD SUGAR TEST 3. % WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTIGOAGULANTS 1. % WITH INDICATION 2. % WITH STOOL FOR BLOOD	100 100 100 100 100 100 100 100 100 100
2. X WITH MEDIA DIVER WITH ADM BP RECORDED 3. X 1 YEAR AND OVER WITH ADM BP RECORDED 4. X WITH WEIGHT RECORDED 5. X MEETING MINIMUM LABORATORY REQUIREMENTS 6. X WITH SYMPTOM AS PRINCIPAL DIAGNOSIS 7. X WITH PELVIC EXAM 8. X AFEBRILE WITH LATER FEVER 402 PATIENTS WITH ELEVATED ADM DIAS BP (ENG PRES) 1. X WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 2. X WITH URINALYSIS 2. X AGE 19* GIVEN DIURETIC OR HYPOTENSIVE 4. X WITH ECG 4. X WITH ECG 4. X WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCE 7. X GIVEN GEN ANESTH WITHOUT TRANSFUSION 4. X GIVEN GEN ANESTH WITHOUT TRANSFUSION 4. X OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYS WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 4. X WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 4. X WITH BLOOD SUGAR TEST 4. X WITH BLOOD SUGAR TEST 5. X WITH BLOOD SUGAR TEST 6. X WITH BLOOD SUGAR TEST 7. X WITH STOOL FOR BLOOD 7. Y WITH COAGULATION TEST 7. X WITH INDICATION 7. X WITH STOOL FOR BLOOD	100 100 100 100 100 100 100 100 100 100
4. X WITH WEIGHT RECORDED 5. X MEETING MINIMUM LABORATORY PEQUIREMENTS 6. X WITH SYMPTOM AS PRINCIPAL DIAGNOSIS 7. X WITH PELVIC EXAM 8. X AFEBRILE WITH LATER FEVER 402 PATIENTS WITH ELEVATED ADM DIAS BP (ENC PRES) 1. X WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 2. X WITH URINALYSIS 3. X AGE 19* GIVEN DIURETIC OR HYPOTENSIVE 403. PATIENTS WITH ADMISSION HOB 404. PATIENTS WITH ADMISSION HOB 5. X WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCY 2. X GIVEN GEN ANESTH WITHOUT TRANSFUSION 404. PATIENTS WITH ABNORMAL BLOOD SUGAR 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 406. PATIENTS WITH URINE POSITIVE FOR SUGAR 407. PATIENTS WITH URINE POSITIVE FOR SUGAR 408. PATIENTS GIVEN ANTICOAGULANTS 5. X WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS 5. X WITH INDICATION 6. X WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	100 100 0.5 100 0.5 0.00 0.00
7. % WITH PELVIC EXAM 8. % AFEBRILE WITH LATER FEVER 402 PATIENTS WITH ELEVATED ADM DIAS BP (EXC PRE3) 1. % WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 2. % WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 3. % AGE 19+ GIVEN DIURETIC OR HYPOTENSIVE 4. % WITH ECG 403. PATIENTS WITH ADMISSION HOB 1. % WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCY 2. % GIVEN GEN ANESTH WITHOUT TRANSFUSION 404. PATIENTS WITH ABNORMAL BLOOD SUGAR 1. % OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR 2. % WITH REPEAT URINE SUGAR TEST 3. % WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS 3. % WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	O S TOX C C TOX ONO ONO
7. % WITH PELVIC EXAM 8. % AFEBRILE WITH LATER FEVER 402 PATIENTS WITH ELEVATED ADM DIAS BP (EXC PRE3) 1. % WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 2. % WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 3. % AGE 19+ GIVEN DIURETIC OR HYPOTENSIVE 4. % WITH ECG 403. PATIENTS WITH ADMISSION HOB 1. % WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCY 2. % GIVEN GEN ANESTH WITHOUT TRANSFUSION 404. PATIENTS WITH ABNORMAL BLOOD SUGAR 1. % OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR 2. % WITH REPEAT URINE SUGAR TEST 3. % WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS 3. % WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	000 000 000 000
402 PATIENTS WITH ELEVATED ADM DIAS BP (EYC PRES) 1. % WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 2. % WITH URINALYSIS 3. % AGE 19- GIVEN DIURETIC OR HYPOTENSIVE 4. % WITH ECG 403. PATIENTS WITH ADMISSION HOB 1. % WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCI 2. % GIVEN GEN ANESTH WITHOUT TRANSFUSION 404. PATIENTS WITH ABNORMAL BLOOD SUGAR 1. % OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE. 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR 2. % WITH REPEAT URINE SUGAR TEST 3. % WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS 3. % WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	ong UK
1. % WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 2. % WITH URINALVSIS 3. % AGE 19* GIVEN DIURETIC OR HYPOTENSIVE 4. % WITH ECG 403. PATIENTS WITH ADMISSION HOB 1. % WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCI 2. % GIVEN GEN ANESTH WITHOUT TRANSFUSION 404. PATIENTS WITH ABNORMAL BLOOD SUGAR 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 406. PATIENTS WITH URINE POSITIVE FOR PROTEIN 407. PATIENTS WITH URINE POSITIVE FOR SUGAR 408. PATIENTS WITH URINE POSITIVE FOR SUGAR 409. PATIENTS WITH URINE POSITIVE FOR SUGAR 400. PATIENTS WITH URINE POSITIVE FOR SUGAR 400. PATIENTS GIVEN ANTICOAGULANTS 400. PATIENTS GIVEN ANTICOAGULANTS 5. % WITH STOOL FOR BLOOD 400. PATIENTS GIVEN ANTIBIOTICS	ong UK
2. % WITH URINALYSIS 3. % ADE 19. GIVEN DIURETIC OR HYPOTENSIVE 4. % WITH ECG 403. PATIENTS WITH ADMISSION HOB 10. % WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANC? 2. % GIVEN GEN ANESTH WITHOUT TRANSFUSION 404. PATIENTS WITH ABNORMAL BLOOD SUGAR 1. % OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR 1. % WITH REPEAT URINE SUGAR TEST 2. % WITH BLOOD SUGAR TEST 3. % WITH INDICATION 2. % WITH COAGULATION TEST 3. % WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	ong UK
A AGE 199 GIVEN DIURETIC OR HYPOTENSIVE 403. PATIENTS WITH ADMISSION HGB 1. X WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCY 2. X GIVEN GEN ANESTH WITHOUT TRANSFUSION 404. PATIENTS WITH ABNORMAL BLOOD SUGAR 1. X OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 1. X WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR 1. X WITH REPEAT URINE SUGAR TEST 2. X WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS 1. X WITH INDICATION 2. X WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	×
403. PATIENTS WITH ADMISSION HGB 1. % WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCY 2. % GIVEN GEN ANESTH WITHOUT TRANSFUSION 404. PATIENTS WITH ABNORMAL BLOOD SUGAR 1. % OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTE:N 1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR 1. % WITH REPEAT URINE SUGAR TEST 2. % WITH BLOOD SUGAR TEST 3. % WITH INDICATION 2. % WITH COAGULATION TEST 3. % WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	э. ——
1. % WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCY 2. % GIVEN GEN ANESTH WITHOUT TRANSFUSION 404. PATIENTS WITH ABNORMAL BLOOD SUGAR 1. % OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR 1. % WITH REPEAT URINE SUGAR TEST 2. % WITH BLOOD SUGAR TEST 3. % WITH STOOL FOR BLOOD 406. PATIENTS GIVEN ANTIBIOTICS	
404. PATIENTS WITH ABNORMAL BLOOD SUGAR 1. % OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR 1. % WITH REPEAT URINE SUGAR TEST 2. % WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS 1. % WITH INDICATION 2. % WITH COAGULATION TEST 3. % WITH STOOL FOR BLOOD	
404. PATIENTS WITH ABNORMAL BLOOD SUGAR 1. % OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR 1. % WITH REPEAT URINE SUGAR TEST 2. % WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS 1. % WITH INDICATION 2. % WITH COAGULATION TEST 3. % WITH STOOL FOR BLOOD	Э.
WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN X WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR X WITH REPEAT URINE SUGAR TEST X WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS X WITH INDICATION X WITH COAGULATION TEST X WITH STOOL FOR BLOOD	ε
WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN 1. % WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR 1. % WITH REPEAT URINE SUGAR TEST 2. % WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS 1. % WITH INDICATION 2. % WITH COAGULATION TEST 3. % WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	
WHO HAD A GTT OR REPEAT BLOOD GLUCOSE 405. PATIENTS WITH URINE POSITIVE FOR PROTEIN X WITH DX OF KIDNEY DISEASE, REPEAT UA, OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR X WITH REPEAT URINE SUGAR TEST X WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS X WITH INDICATION X WITH COAGULATION TEST X WITH STOOL FOR BLOOD	
OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR X WITH REPEAT URINE SUGAR TEST X WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS X WITH INDICATION X WITH COAGULATION TEST X WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS)C
OR OTHER URINARY SYSTEM EVALUATION 406. PATIENTS WITH URINE POSITIVE FOR SUGAR X WITH REPEAT URINE SUGAR TEST X WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS X WITH INDICATION X WITH COAGULATION TEST X WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	
. % WITH REPEAT URINE SUGAR TEST 2. % WITH BLOOD SUGAR TEST 407. PATIENTS GIVEN ANTICOAGULANTS 1. % WITH INDICATION 2. % WITH COAGULATION TEST 3. % WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	o o
407. PATIENTS GIVEN ANTICOAGULANTS 1. % WITH INDICATION 2. % WITH COAGULATION TEST 3. % WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	
1. % WITH INDICATION 2. % WITH COAQULATION TEST 3. % WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	00 00
2. % WITH COAQULATION TEST 3 % WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	
2. % WITH COAQULATION TEST 3 % WITH STOOL FOR BLOOD 408. PATIENTS GIVEN ANTIBIOTICS	ос
	00 00
	00
2. % WITH SELECTED INFECTIONS WITH C & S	<u>~</u>
409. PATIENTS GIVEN DIURETICS	
X WITH INDICATION	og.
2. % WITH WEIGHT RECORDED	OC:
	7.2
410 PATIENTS WITH OTHER DRUG THERAPY	
S GIVEN HYPOTENSIVES WITHOUT HYPERT DX	
X GIVEN CARDIDREGULATORS W/O CARDIAC DX	N2
T S GIVEN ANTIDIABETICS W/O DIABETIC DX S S GIVEN NEUROLEPTICS W/O MAJ RSYCH DX	000

PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS
41: PAT; ENTS TRANSFUSED	
1. % WITH INDICATION FOR TRANSFUSION 2. % WITH ANEMIACEX 285.1)GIVEN PACKED RBC 3. % WITH TRANSFUSION REACTION, 999.6-999.8	100 100 0-3
ALL NEWBORN	
501. ALL LIVEBORN AND STILLBORN	
1. % LIVEBORN 2 NEONATAL MORTALITY RATE (%) 3 % WITH BIRTHWEIGHT RECORDED 4. % WITH ADMISSION TEMPERATURE RECORDED 5 % WITH INFANT INFECTIONS 6. % W/O INFECTION OR RDS GIVEN ANTIBIOTICS 7. % NOT RH OR OTHER ISO-IMMUNE TRANSFUSED	100 C 100 100 0 1
502 NEGNATES WITH BIRTHWEIGHT(5 1/2 LBS (2500G)	
1 MORTALITY RATE (%) 2. % WITH LIVER FUNCTION TEST 3. % UNDER 1750G WITH CHEST X-RAY 4. % UNDER 1750G MONITORED	0 100 100 100
DEPT OF PSYCHIATRY	
60' ALL PATIENTS, BASIC WORKUP 1 % WITH URINALYSIS 2 % WITH HEMOGLOBIN OR HEMATOCRIT 3. % 1 YEAR AND OVER WITH ADM BP RECORDED 4. % WITH WEIGHT RECORDED 5 % MEETING MINIMUM LABORATORY REQUIREMENTS 6 % WITH SYMPTOM AS PRINCIPAL DIADNOSIS	100 100 100 100 100 100 0.5
7. MORTALITY RATE (%) 8 % OPERATED 9 % WITH ADVERSE REACT TO PSYCHOTROPIC AGENT, E939	000
602 PATIENTS WITH ELEVATED ADM DIAS BP (EXC PREG)	
1 % WITH HYPERT DX OR WITH DISCH VITAL SIGNS STABLE 2 % WITH URINALYSIS 3 % AGE 19+ GIVEN DIURETIC OR HYPOTENSIVE 4 % WITH ECG	100 100 100 100
603 PATIENTS WITH ADMISSION HOBE TO GM & (HCT < 30 %) 1 % WITH BLEEDING, HEMOLYSIS, ANEMIA, OR MALIGNANCY 2 % GIVEN GEN ANESTH WITHOUT TRANSFUSION	7 100 0
604 PATIENTS WITH ABNORMAL BLOOD SUGAR 1 % OF THOSE NOT DIAGNOSED AS DIABETIC OR HYPOGLYC WHO HAD A GIT OR REPEAT BLOOD GLUCOSE	100
605 PATIENTS WITH URINE POSITIVE FOR PROTEIN 1 % WITH DX OF KIDNEY DISEASE, REPEAT URINALYSIS, OR OTHER URINARY SYSTEM EVALUATION	100
606 PATIENTS WITH URINE POSITIVE FOR SUGAR 1 % WITH REPEAT URINE SUGAR TEST 2 % WITH BLOOD SUGAR TEST	100

	DATEAN CONTROL	Terre-
-	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS
1	607 PATIENTS GIVEN ANTICOAGULANTS	
	X WITH INDICATION X WITH COAGULATION TEST X WITH STOOL FOR BLOOD	100 100 100
	608 PATIENTS GIVEN ANTIBIOTICS	
2.	X WITH INDICATION X WITH SELECTED INFECTIONS WITH C & S	100
	609. PATIENTS GIVEN DIURETICS	
	X WITH INDICATION X WITH WEIGHT RECORDED X WITH ELECTROLYTE DETERMINATION	100 100 100
	610. PATIENTS WITH OTHER DRUG THERAPY	
2. 3.	% GIVEN HYPOTENSIVES WITHOUT HYPERT DX % GIVEN CARDIOREGULATORS W/O CARDIAC DX % GIVEN ANTIDIABETICS W/O DIABETIC DX % GIVEN NEUROLEPTICS W/O MAJ PSYCH DX	0000
	611 PATIENTS TRANSFUSED X WITH INDICATION FOR TRANSFUSION	100
2.	% WITH ANEMIA(EX 285.1)GIVEN PACKED RBC % WITH TRANSFUSION REACTION, 999 6-999 8	100
	DIAGNOSIS GROUPS (ANY DEPARTMENT)	1
	701. INTESTINAL INFECTIOUS DISEASE, PEDIATRIC (PRINCIPAL DIAGNOSIS 001-009)	
	% WITH STOOL CULTURE 90 92, 90 93 % WITH WEIGHT RECORDED % GIVEN PARENTERAL FLUIDS.	0 100 100 100 100 100 100
	702 INTESTINAL INFECTIOUS DISEASE, ADULT (PRINCIPAL DIAGNOSIS 001-009) MORTALITY RATE (%)	
2 3 4 5. 6 7	% WITH ELECTROLYTE DETERMINATION % WITH STOOL CULTURE 90 92, 90 93 % GIVEN PARENTERAL FLUIDS % GIVEN ANTIBIOTICS OR OTHER ANTI-INFECTIVES. EXCL 001,002, 004, 006 % ISOLATED % WITH PROGRESS SATISFACTORY AT DISCHARGE	100 100 100 100 100
		+
· 2345678	703 VIRAL HEPATITIS (PRINCIPAL DIAGNOSIS 070) MORTALITY RATE , X X WITH RECORDED JUSTIFICATION FOR ADMISSION X WITH LIVER FUNCTION TEST X WITH ENZYME STUDIES X WITH CDAGULATION STUDY X WITH BACTERIAL OR VIRAL ANTIBODIES X GIVEN ANXIOLYTICS OR NEUROLEPTICS X WITH PROGRESS SATISFACTORY AT DISCHARGE	100 100 100 100 100 100

	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS
234567	PIO MALIGNANT NEOPLASM OF LARGE INTESTINE (PRINCIPAL DIAGNOSIS 153) MORTALITY RATE (%) % WITH INTESTINAL SURGERY 45 0-46 9 % WITH MALIGNANT TISSUE REPORTED % WITH SIGMOIDOSCOPY OR COLONOSCOPY % WITH LOWER GI X-RAY, 87 64 % WITH POSTOPERATIVE COMPLICATION % WITH NORMAL GI FUNCTION AT DISCHARGE	0-5 100 100 100 100 0 100	T30 DIABETES MELLITUS PED ATRIC (PRINCIPAL DIAGNOSIS 250) 1 MORTALITY RATE (%) 2. % WITH FUNDUSCOPIC EXAM 3. % WITH REPEAT BLOOD SUGAR, STAY>2 DAYS 4. % WITH ELECTROLYTE DETERMINATION 5. % GIVEN INSULIN 6. % GIVEN GRAL ANTIDIABETICS 7. % WITH PROGRESS SATISFACTORY AT DISCH	100 100 100 100 100
	211 MALIGNANT NEOPLASM OF LUNG, BRONCHUS, TRACHEA (PRINCIPAL DIAGNOSIS 162) MORTALITY RATE (%)	0-20	731. DIABETES MELLITUS, ADULT (PRINCIPAL DIAGNOSIS 250) MORTALITY RATE (%)	c
3 4 5	POSTOPERATIVE MORTALITY RATE (%) % WITH MALIGNANT TISSUE REPORTED % WITH POSTOPERATIVE COMPLICATION % WITH PROGRESS SATISFACTORY AT DISCH	0-5 100 0 100	2 % ADMITTED FOR UNCOMPLICATED DIABETES, 250 3. % WITH BLOOD SUGAR TEST 4. % WITH FUNDUSCOPIC EXAM 5 % WITH ELECTROLYTE DETERMINATION 6. % WITH COMPLICATIONS GIVEN ANTIDIABETIC 7 % WITH DISCH INSTRUCTIONS UNDERSTOOD	100 100 100 100 100
	7'2 MALIGNANT NEOPLASM OF BREAST (PRINCIPAL DIAGNOSIS 174-175) MORTALITY RATE (%) % WITH MALIGNANT TISSUE REPORTED % WITH CHEST X-RAY % WITH EXTIRPATIVE MASTECTOMY, 85 41-85 48 % WITH POSTOPERATIVE COMPLICATION % WITH PROGRESS SATISFACTORY AT DISCH	0 100 100 100 0 100	735. ANEMIA (PRINCIPAL DIAGNOSIS 280-285) 1 MCRTALITY RATE (%) 2 % WITH ADMISSION HOB 3 % WITH RED CELL INDICES 4 % WITH SERUM IRON TEST 5 % WITH RETICULOCYTES, NUCLEATED RBC 6 % WITH STOCL FCR BLODD 7 % TRANSFUSED GIVEN PACKED RBC. EXC 285 1	0 100 100 100 100 100
:	TIB MALIGNANT NEOPLASM OF PROSTATE (PRINCIPAL DIAGNOSIS 185) MORTALITY RATE (%)	3	8 % WITH NORMAL OR RISING HOB/HCT)AT DISCH	- oc
3 4 5	I WITH MALIGNANT TISSUE REPORTED I WITH SKELETAL X-PAY OR BONE SCAN I WITH POSTOPERATIVE COMPLICATION I WITH NORMAL URINARY FUNCTION AT DISCH	100 100 0 100	740 ORGANIC BRAIN SYNDROME (PRINCIPAL DIAGNOSIS 290, 294, OR 310) 1 MORTALITY RATE (X) 2. X WITH NITROGEN DERIVATIVES	0 100
!	7'4 MALIGNAN' NEOPLASM OF BLADDER (PRINCIPAL DIAGNOSIS 188)		3 % WITH SEROLOGICAL TEST FOR SYPHILIS 4 % GIVEN ELECTROCONVULSIVE THERAPY, 94 27 5 % ISOLATED 6 % WITH DECUBITUS ULCER, 707 0 7 % WITH FROGRESS SATISFACTORY AT DISCH	100 0 0 0 100
	MORTAL(TY RATE (%) WITH CYSTOSCOPY 57 31-57.33, 57.49 WITH RETPOSEADE PERCUTANEOUS, OR TV PYELOGRAPHY WITH FULGURATION 57 49, 57 59 WITH NORMAL URINARY FUNCTION AT DISCH	0-5 100 100 100 100	74" ALCOHOLIC WITHCRAWAL SYNDROME AND MG-12-0585 (PRINCIPAL DIAGNOSIS 291)	
3	TIS BENIGN BREAST DISEASE (PRINCIPAL DIAGNOSIS 217 OR 610) MORTALITH RATE IN: N W EXTIRPATIVE SURGERY 85 20-85 25, 85 33-85 42 N WITH TISSUE CONFIRMING DIAGNOSIS N WITH POSTOPERATIVE COMPLICATION N WITH PROGRESS SATISFACTORY AT DISCH	0 100 100 0 0	MORTALITY RATE (%) 2 % WITH THIS AS ONLY DX BUT WITH SIGNIFICANT ABN FINDING: HGB FINDING: HGB 3. % WITH LIVER FUNCTION TEST 4 % GIVEN ELECTROCONVULSIVE THERAPY, 94 27 5 % GIVEN NEUROLEPTICS 6 % GIVEN ALCOHOL COUNSEL OR REFERRAL 94 46, 94 50 7 % WITH DISCH INSTRUCTIONS UNDERSTOOD	0 100 100 100 100
<u></u> -	716 UTERINE LEIGHIGHA		742 DRUG DEPENDENCE AND DRUG-:NDUCED PSYCHOSES (PRINCIPAL DIAGNOSIS 292 OR 304)	: : :
. 2 3 4 5	(PRINCIPAL DIAGNOSIS 2:8) MORTALITY RATE (%) % WITH CURETTAGE HYSTERECTONY OR MYDMESTOMY % THE POSTORERATIVE COMPLICATION % WITH PROGRESS SATISFACTORY AT DISCH	0 100 0.10 1 0 100 j	* MORTALITY RATE (%) 2 % WITH THIS ONLY DX, BUT WITH SIGNIFICANT ABN FINDING HGB412,DIAS BP310, TEMP3101 3 % WITH LIVER FUNCTION TEST 4 % SIVEN DRUG COUNSELING OR REFERRAL 94 45 94 54 5 % WITH DISCH INSTRUCTIONS UNDERSTOOD	100
	CARCINOMA IN SITU OF CERVIY (PRINCIPAL DIAGNOSIS 233.1) MORTALITY RATE 18, % WITH MALIGNANT TISSUE REPORTED % WITH CERVICAL PAPANICOLADU 9 46 % WITH CURETTARE 69 0 69 51WITH CERVICAL BIOPSY ON COME 67 11-67 12 67 2 % GIVEN RAD ATION THERAPY 92 2 % WITH PROGRESS SATISFACTORY AT DISCH	2 1.36 1.07 1.07 1.00	743 SCHEZÖPHRENIA (PRINCIPAL PIAGNOSIS 295.0-295.3, 295.5-295.9) * MORTALITY RATE (%) 2 % GIVEN MEUROLEPTICS, EXCL LATENT, 295 5 3 % 3 VEN PSYCHOTHERAPY 94 3 94 41 44.94 49 4 % GIVEN ELECTROCONVULSIVE THERAPY, 94 27 5 % WITH ADVERSE REACTION TO PSYCHOTROPIC, E939 6 % WITH PROGRESS SATISFACTORY AT DISCH	1 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

_	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS
	744 AFFECTIVE DISORDERS (PRINCIPAL DIAGNOSIS 296)	
2	MORTALITY RATE (\$) X DEPRESSIVE AGE 40+ WITH THYROID FUNCTION MANIC GIVEN NEUROLEPTICS	100
5.	X MANIC GIVEN ECT, 94 27 X DEPRESSIVE GIVEN ECT, 94:27	0.10 0.30
7	% DEPRESSIVE ISOLATED % SEVERE CASES DISCHARGED AMA % WITH PROGRESS SATISFACTORY AT DISCH	0 100
	2 WITH PRODUCTS SKITSPRETOKY AT STOCK	
	745 NEUROSES AND PERSONALITY DISORDERS (PRINCIPAL DIAGNOSIS 300-302, 308-309)	
	MORTALITY RATE (%) % WITH NEUROSIS AS ONLY DIAGNOSIS BUT SIGNFICANT ABN FINDING- HOB 12, DIAS BP 110,TEMP>101 % GIVEN ELECTROCONVULSIVE THERAPY, 94 27	0 0
4.	X GIVEN NEUROLEPTICS X ISOLATED	0.5
6 7.	% GIVEN PSYCHOTHERAPY: 94 3, 94 41- 44, 94 49 % WITH PROGRESS SATISFACTORY AT DISCH	100
	746 ALCOHOL DEPENDENCE SYNDROME AS ANY DIAGNOSIS (ANY DIAGNOSIS 303)	
2	MORTALITY RATE (%) % WITH THIS AS ONLY DX, BUT WITH SIGNIFICANT	0
3.	ABN FINDING: HGB<12,D:AS BP>110, TEMP>10: % NOT ACUTELY INTOXICATED W/ LIVER FUNCT	100
5	1 NOT ACUTELY INTOXICATED W/ BLOOD SUGAR 1 GIVEN ALCOHOL COUNSEL OF REFERRAL 94 46, 94.53	100 100
7	% WITH ASPIRATION PNEUMONIA, 507 % WITH DISCH INSTRUCTIONS UNDERSTOOD	100
. 2	747 PSYCHOPHYSIOLOGIC DISORDERS (PRINCIPAL DIAGNOSIS 306 OR 316) MORTALITY RATE (%) % WITH PSYCHIC FACTORS WITH ADD L DX	ت 100
3 4 5	X GIVEN ELECTROCONVULSIVE THERAPY, 94 2/ X WITH CONSULTATION X WITH DISCH INSTRUCTIONS UNDERSTOOD	100 100
	755 CONVULS. VE DISORDERS, PEDIATRIC (PRINCIPAL DIAGNOSIS 345 OR 780.3)	
2	MORYALITY RATE (%) % WITH EEG	100
3	I WITH DIAGNOSTIC EXAMINATION OF HEAD I 3 YEARS: WITH BLOOD SUGAR TEST	100 100
5 7	% WITH SERUM CALCIUM % 5 MO OR UNDER WITH SP:NAL TAP, 00 31 % WITH PROGRESS SATISFACTORY AT DISCH	100 100 100
	756 CONVULS: VE DISORDERS, ADULT (PRINCIPAL DIAGNOSIS 345 OR 780.3)	
. 2	MORTALITY RATE (%) % WITH EEG	100
3 4	X WITH DIAGNOSTIC EXAMENATION OF HEAD X WITH MICRO EXAM OF CEREBROSPINAL FLUID, 90 0	100 100
5	% WITH STABLE VITAL SIGNS AT DISCH	100
	757 CHRONIC OTITIS MEDIA (PRINCIPAL DIAGNOSIS 381 1 381.4, 382.1-382.9)	
. 2	MORTALITY RATE (%) % GIVEN HEARING TEST	100
. 2 3		-

	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS
1. 2. 3. 4.	. % WITH ECG . % WITH CHEST X-RAY	0 5 100 100 100 100 100
4	763. ESSENTIAL HYPERTENSION (PRINCIPAL DIAGNOSIS 401) MORTALITY RATE (%) % WITH RECORDED JUSTIFICATION FOR ADMISSION % WITH FUNDUSCOPIC EXAMINATION % WITH ECG. NITROGEN DERIVATIVES. AND ELECTROLYTES % GIVEN DIURETICS OR HYPOTENSIVES % WITH DISCH INSTRUCTIONS UNDERSTOOD	0 2 160 160 100 100 100 100
5.	. % WITH CHEST X-RAY . % given cardiac regulators . % given diuretics or hypotensives	0-5 100 100 100 100 100 100
2 3 4 5 6		15-20 100 100 100 100 0-1 100
4.	766 ANGINA PECTOR:S (PRINCIPAL DIAGNOSIS 413) MORTALITY RATE (%) % WITH ANGIOCARDIOGRAM, 88.5, OR REVASC, 36.1-36.3 % WITH ABNORMAL ENZYMES % WITH REPEAT ECG % WITH PROGRESS SATISFACTORY AT DISCH	0 130 100 100
5.	767 OTHER ACUTE AND SUBACUTE ISCHEMIC HEART DISEASE (PRINCIPAL DIAGNOSIS 411) MORTALITY RATE (%) % WITH ABNORMAL ENZYMES % WITH REPEAT ECG, STAY>2 DAYS % WITH CHEST X-RAY % MONITORED % FREE OF COMPLAINT AT DISCHARGE	0 100 100 100 100
1 2 3 4 5 6	768 MISCELLANEOUS ISCHEMIC HEART DISEASE (PRINCIPAL DIAGNOSIS 412 OR 414) MORTALITY RATE (\$) \$ WITH CORONARY ATHEROSCLEROSIS WITHOUT ADDITIONAL CARDIAC DX 390-413,414 1,415-429 \$ WITH ABNORMAL ENZYMES \$ WITH COST X-RAY \$ WITH CHEST X-RAY \$ WITH PROGRESS SATISFACTORY AT DISCH	5 10 0 10 100 100 100

	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANEWROS
	769 PULMONARY EMBOLISM AS ANY DIAGNOSIS, MEDICAL (ANY DIAGNOSIS 415.1) MORTALITY RATE (%) % WITH REPEAT CHEST X-RAY % WITH RADIDISOTOPE LUNG SCAN, 92 15 % TOIVEN ANTICOAGULANTS % WITH VENOUS LIGATION OR PLICATION % WITH PROGRESS SATISFACTORY AT DISCH	0-5 100 100 100 0-10	776 VARIOUSE VEINS OF LEG (PRINCIPAL DIAGNOSIS 454) 1. MORTALITY RATE (%) 2. % WITH LIGATION, STRIPPING, OR INJECT 38 59, 39 92 3. % WITHOUT ULCER OR INFLAMMATION (454 0-454.2) GIVEN ANTIBLOTICS 4. % WITH POSTOPERATIVE COMPLICATION 5. % WITH PROGRESS SATISFACTORY AT DISCH	100
1 2 3 4 5 6	770 PULMONARY EMBOLISM AS ANY DIAGNOSIS, SURGICAL (ANY DIAGNOSIS 415.1) MORTALITY RATE (%) % WITH NIPEAT CHEST X-RAY % WITH LUNG SCAN, 92 '5, OR ANGIOGRAPHY, 88 43-88 44 % GIVEN ANTICOAGULANTS % WITH VENOUS LIGATION OR PLICATION % WITH VITAL SIGNS STABLE AT DISCHARGE	0-5 100	800. ACUTE UPPER RESPIRATORY INFECTION (PRINCIPAL DIAGNOSIS 460-465) 1. MORTALITY RATE (%) 2. % WITH RECORDED JUSTIFICATION FOR ADMISSION 3. % WITH UPPER RESPIRATORY TRACT CULTURE 4. % OF THOSE GIVEN ANTIBIOTICS WITHOUT UR TRACT CULTURE, 90.32 OR 90.33 5. % WITH PROGRESS SATISFACTORY AY DISCH	9 106 100 6 100
23456	MONITORED MITH ECG	0 100 100 100 100 100	801. ACUTE BRONCH:TIS PEDIATRIC (PRINCIPAL DIAGNOS'S 466) 1. MORTALITY RATE (%) 2. % WITH RECORDED JUSTIF:CATION FOR ADMISSION 3. % WITH CHEST X-RAY 4. % AFEBRILE AT DISCHAPGE	- 100 100 100
3 4 5 6	772 HEART FAILURE (PRINCIPAL D:AGNOSIS 428) MORTALITY RATE (%) % WITH ECG % WITH ELECTROLYTE DETERMINATION % WITH NITROGEN DERIVATIVES % GIVEN DIURETICS % GIVEN CARDIAC REGULATORS % WITH PROGRESS SATISFACTORY AT DISCH	0.10 100 100 100 100 100 100	802 ACUTE BRONSHIT'S ADULT (PRINCIPAL D'AGNOSIS 466) 1. MORTALITY RATE (%) 2. % WITH RECORDED JUSTIFICATION FOR ADMISSION 3. % WITH CHEST X-RAY 4. % WITH PULMONARY FUNCTION TEST 5. % GIVEN ANTIBIOTICS 6. % GIVEN IPPB OR OTHER INHALATION RX 7. % FREE OF COMPLAINT AT DISCHARGE	10. 10. 100 100 100
3 4 5	773 CEREBROVASCULAR D'SEASE (PRINCIPAL DIAGNOSIS 430-438) MORTALITY HAIL (X) X WITH RADIOGRAPHIC EXAM OF SKULL AND CNS X WITH SPINAL TAP 03 3' X OF CVA PARALIZED GIVEN PT, STAY > 2 DAYS X WITH DECUBITUS ULCER, 707 0 X WITH VITAL SIGNS STABLE AT DISCHARGE	10-15 100 100 100 0	803 PNEUMONIA PEDIATRIC (PRINCIPAL LIAGNISIS 486448) 1. MORTALITY RATE (%) 2. % WITH RECORDED JUSTIFICATION FOR ADM SSION 3. % WITH CHEST X-RAY 4. % 1 MONTH AND OLDER WITH TB SKIN TEST 5. % GIVEN ANTIBICTICS, EXC VIRAL, 480 6. % WITH PROGRESS SATISFACTORY AT DISCH	0 100 100 100 100 100 100 100 100 100 1
3	774 ARTERIAL EMBOLISM AND THROMBOSIS (PRINCIPAL DIAGNOSIS 444) MORTALITY RATE %1 % WITH ABNORMAL ARTER: OGRAPHY, THERMOGRAPHY, ADRTOGRAPHY, SCAN OR ULTRASOUND % WITH COAGULATION "ES" % GIVEN ANTICOAGULANTS % AFEBRILE A" DISCHARGE	0.5 100 100 100	804. PREUMONIA. ADULT (PRINCIPAL DIAGNOSIS 480-486) 1 MORTALITY RATE . 4: 2 % WITH RECORDED JUSTIFICATION FOR ADMISSION 3 % WITH STAYY7 DAYS WITH RPT CHEST X-RAY 4 % WITH LOWER RESP TRACT CULTURE 90 42 90 43 5 % WITH BLOOD CULTURE 90 52 0R 90 53 6 % WITH BLOOD CULTURE 90 52 0R 90 53 6 % WITH SENSITIVITY FOR POSITIVE CULTURE 7 % GIVEN ANTIBIOTICS. EXC VIRAL, 480 8 % WITH PROGRESS SAT STACTORY AT DISCH	0.6 160 160 180 180 160 160
3 4 5	775 PHLEBIT S AND THROMBOPHLEBITS (PRINCIPAL TIGANISIS 451) MORTALITY RATE \$ WITH CHEST NIRAY, IMPEDANCE PHLEBOGRAPHY, RADIOISOTOPE SCAN OR ULTRASOUND \$ WITH ECG \$ WITH COAGULATION TEST \$ GIVEN ANTICOAGULANTS \$ AFEBRILE AT DISCHARGE	100 100 100 100 100 100 100 100 100 100	## BOS INFLUENZA (PRINCIPAL DIAGNOSIS 48*) MORTALITY RATE : X X WITH RECORDED JUST FICATION FOR ADMISSION X WITH CHEST X-RAY X WITH ANTIBLOTICS X WITH EMPLEMA 5:0 OP LUNG ABSCESS 5:3 O X WITH PROGRESS SATISFACTORY AT DISCH	0 100 100 100 100

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	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS	
3. 4. 5	806 EMPHYSEMA AND OTHER COPD (PHINCIPAL DIAGNOSIS 492, 494-496) MORIALITY RATE (%) % WITH ELECTROLYTE DETERMINATION % WITH ARTERIAL BLOOD GASES % WITH ARTERIAL BLOOD GASES % WITH INHALATION THERAPY, INCL IPPB % GIVEN ANXIOLYTICS OR NEUROLEPTICS % WITH PROGRESS SATISFACTORY AT DISCH	0·10 100 100 100 100 0 100	23450
2 3 4 5 6 7	# GIVEN ANXIOLYTICS OF NEUROLEPTICS	0 100 100 100 0 100 100	3456
2 3 4 5 6 7 8		0 100 100 100 100 100 100	
2 3 4 5 6	825 GASTRIC ULCER, UNCOMPLICATED (PRINCIPAL DIAGNOSIS 531.30, 531.70, OR 531.90) MORTALIT RATE (%) % WITH ENDOSCOPY, 44 11-44 13 % WITH BLOPSY, 44 14-44.15 % WITH UPPER G; X-RAY, 87.62 % TRANSFUSED % WITH NORMAL SI FUNCTION AT DISCHARGE	0 100 100 100 0 100	1 2 3 4 5 6
2 3 4	826 NONGASTRIC PETTIC ULCER (PRINCIPAL DIAGNOSIS 532-534 WITH .30, .70, OR .90) MORTALITY RATE :%) % COMPLICATED % PERFORATED WHO HAD GASTRIC SURGERY % UNPERF WITH UPPER GI X-RAY OR ENDOSC	0 100 100 100	3 4 5
5 6 7	# WITH STOOL FOR BLOOD # W/O GASTRIC SURGERY TRANSF 6+ UNIT # WITH NORMAL GI FUNCTION AT DISCHARGE	100	1 2 3 4
3 4 5	627 DIVERTICULAR DISEASE (PRINCIPAL DIAGNOSIS 562) MORTALITY RATE (%) % WITH LOWER 31 X-RAY, 87 64 % WITH SUMPIDOSOPY 48 23 % WITH DIVERTICULITIS GIVEN ANTIBIOTICS % WITH NORMAL GI FUNCTION AT DISCHARGE	0 100 100 100 100	1 2 3 4 5 6
2 3 4 5	828 CIRRHOS.S (PRINCIPAL DIAGNOSIS 571) MORTAL.TY RATE 131 \$ MITH ENZYME STUDIES \$ MITH ELECTROLYTE DETERMINATION \$ MITH LIVER FUNCTION TEST \$ MITH LIVER BIOPSY 150 11, 50 12) WITH COAG STUDY AND LIVER OR SPLEEN SCAN \$ MITH PROGRESS SATISFACTORY AT DISCH	0.5 100 100 100	1 2 3 4 5

	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS
2. 3. 4. 5		0 100 100 100 100 100
5	830. DISEASE OF PANCREAS, SURGICAL (PRINCIPAL DIAGNOSIS 577) MORTALITY RATE (%) % WITH SERUM AMYLASE % WITH LIVER FUNCTION TEST % WITH GB SERIES, RETROGRADE CANNULA, OR IV CHOLANG % ACUTE PANCREATITIS PATIENTS OPERATED % WITH NORMAL GI FUNCTION AT DISCHARGE	3 100 100 100 100 0
2.	% WITH GI X-RAY, 87 61-87.65	100 100 100 100 100 100
1 2 3 4 5 6	X WITH POSITIVE URINE CULTURE: 91.32, 91.33 X WITH 1VP, 87.73 X GIVEN ANTIBIOTICS OR OTHER ANTI-INFECTIVES	0 100 100 100 100 100
2 3 4 5	845. RENAL CALCULUS (PRINCIPAL DIAGNOSIS 592.0) MORTALITY RATE : %) % WITH URINE CULTURE 91 32. 9° 33 % WITH RETROGRADE, PERCUTANEOUS OR IV PYELOGRAPHY % WITH POSTOPERATIVE COMPLICATION % WITH NORMAL URINARY FUNCTION AT DISCH	100
2 3 4	847 URETERAL CALCULUS (PRINCIPAL DIAGNOSIS 592.1) MORTALITY RATE (%: % WITH SERUM CALC: M % WITH RETROGRADE PERCUTAHEOUS OR IV PYELOGRAPHY % WITH NORMAL URINARY FUNCTION AT DISCH	100 100 100
1 2 3 4 5 6	848 CYSTITIS (PRINCIPAL DIAGNOSIS 595) MORTALITY RATE (%) % WITH POS)TIVE URINE CULTURE: 91.32, 91.33 % WITH URINALYSIS % WITH CYSTOSCOPY 57 3' 57 32 % GIVEN ANTIBIOTICS OR OTHER ANTI-INFECTIVES % WITH NORMAL URINARY FUNCTION AT DISCH	0 100 100 100 100 100
1 2 3 4 5	849 BENIGN PROSTATIC HYPERTROPHY (PRINCIPAL DIAGNOSIS 600) MORTALITY RATE .%: % WITH RETROGRADE, PERCUTANEOUS OR IV PYELOGRAPHY % WITH PROSTATECTOMY OR CYSTOSCOPY % WITH POSTOPERATIVE COMPLICATIONS % WITH NORMAL URINARY FUNCTION AT DISCH	100 100 0 100

	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS
3 4 5 6	050 DISORDERS OF MENSTRUATION (PRINCIPAL DIAGNOSIS 626,0-626.9) MORTALITY RATE (1) 1 WITH D&C OR ASPIRATION CURETTAGE. 69 0, 69.5 1 UNDER 40 WITH HYSTERECTOMY, 68 3-68 8 1 TRANSFUSED 1 WITH POSTOPERATIVE COMPLICATION 2 WITH PROGRESS SATISFACTORY AT DISCH	0 100 0-10 0-5 0	882 CHEST PAIN (PRINCIPAL DIAGNOSIS 786.5) ' MORTALITY RATE '%) 2 AUTOPSY RATE 3 % WITH REPEAT ECG 4. % WITH REPEAT ENZYMES 5 % WITH CHEST X-RAY 6. % FREE OF COMPLAINT AT DISCHARGE	1 100 1 100 1 100 1 100 1 100
234567	WITH DEC OR ASPIRATION CURETTAGE 69 0, 69 5	0 100 100 100 0.10 0 100	883 ABDOMINAL PAIN (PRINCIPAL DIAGNOSIS 789.0) 1 MORTALITY RATE (%) 2 AUTOPSY RATE (%) 3. % WITH CHEST X-RAY 4 % WITH ABDOMINAL X-RAY 88 01-88 02, 88.19 5 % WITH SERUM AMYLASE TEST 6 % WITH SERUM AMYLASE TEST 6 % WITH RECTAL EXAM 7 % FEMALES WITH PELVIC EXAM 8 % GIVEN ANTIBIOTICS 9 % TRANSFUSED 10. % FREE OF COMPLAINT AT DISCHARGE	0 100 100 100 100 100 100 100
	861 DELIVERY AS ANY DIAGNOSIS (ANY DIAGNOSIS 641-676, 5TH DIGIT 0, 1, 2 WHERE APPLICABLE) MORYALITY RATE (\$) \$ DELIVERING STILLBORN \$ DELIVERED BY C-SECTION: 74:0-74:2, 74:4, 74:99 \$ DELIVERED BY C-SECTION: 74:0-74:2, 74:4, 74:99 \$ DELIVERED BY THIGH FORCEPS, 72:3 \$ DELIVERED WITH HIGH FORCEPS, 72:2 \$ WITH CEPHALOPELVIC DISPROPORTION OR PROLONCED LABOR MONITORED \$ WITH SELECTED DELIVERY COMPLICATIONS \$ WITH COMPLICATIONS OF PUERPERIUM \$ TRANSFUSED	0 0-1 5-15 0 0-5	890. FRACTURE OF RADIUS OR ULNA (PRINCIPAL DIAGNOSIS 813) MORTALITY RATE (\$) 2 \$\frac{1}{2}\$ WITH SKELETAL X-RAY, 88 22-88 24 3 \$\frac{1}{2}\$ WITH FRACTURE REDUCTION 19 0-79 3, 4TH DIGIT 2 4 \$\frac{1}{2}\$ WITH POSTOPERATIVE COMPLICATION 5 \$\frac{1}{2}\$ WITH PROGRESS SATISFACTORY AT DISCH 891 FRACTURE OF UPPER END OF FEMUR (PRINCIPAL DIAGNOSIS 820) MORTALITY RATE (\$\frac{1}{2}\$)	100
· .	62 BREECH PRESENTATION, DELIVERED AS ANY DIAGNOSIS (ANY DIAGNOSIS 552.2, 669,6 WITH 5TH DIGIT 0, 1, OR 2) MORTALITY RATE (%) **DELIVERING STILLBORN **WITH PERINEAL OR CERVICAL LACERATION **WITH PROGRESS SATISFACTORY AT DISCH	0 0-1 0-5 100	2 % WITH SKELETAL X RAY 88 26-88 27,88 29,88 31 3 % WITH OPEN PEDUCTION OF REPLACEMENT 4 % OPERATED WITHIN 3 DAYS 5 % WITH POSTOPERATIVE COMPLICATION 6 % WITH PROGRESS SATISFACTORY AT DISCH B92 CONCUSSION (PRINC PAL DIAGNOSIS 850)	190 190
	875 RHEUMATOID ARTHRITIS (PRINCIPAL DIAGNOSIS 714)		1 MORTALITY RATE (%) 2 % WITH DIAGNOSTIC EXAMINATION OF HEAD 3 % GIVEN ANNIOLYTICS OR NEUROLEPTICS 4 % THIVITAL SIGNS STARLE AT CISCHARGE ALL OPERATED PATIENTS	0 100 0 0 1 V
3 4 5	MORTALITY RATE (\$) \$ with Skeletal X-RAY 87.13,87 16-87 2-88 2-88 33 \$ with Sedimentation Rate \$ with Serology Studies \$ Given Phys Cal Therapy 93 1-93 3 \$ with Progress Satisfactory at Disch	0 100 100 100 100 100	901 ALL PATIENTS WITH OPERATIONS 1 % WHO DIED IN OPERATING ROOM 2 % WITH PREDEFRATIVE ANSITHESIA EVALUATION 3 % WITH SELE LED OPS WITH TISSUE CODED	\$ 100 0.80
2 3 4 5	876 DEPANSEMENT AND DISPLACEMENT OF LUMBAR DISK (PRINCIPAL INLAINNOSIS 722UC. 32, 52, 13, 83, 93) MORTALITY RATE IX: WITH MYELOGRAM TRACTION, EXCISION OR FUSION X GIVEN PHYSICAL THERAFY, 93 1-93 3 X WITH POSTOPERATIVE COMPLICATION X AMBULATOR: AY DISCHARGE	0 100 100 5 100	902 OPERATED PATIENTS DIVEN GENERAL ANEXCHES A 1 % WITH PREAMESTHESIA EVALUATION 2 % WITH ADMISSION HIGH THOT RECORDED 3 % WITH ADMISSION WITHAL VSION RECORDED 4 % AGE 40+ WITH CHEST WIRAN 5 % AGE 40+ WITH EDG 6 % WITH ADMISSION GUERDOSE OR WRONG 7 % WITH ADMISSION WISHOUSENTURE	100 100 100 100 100 100 100 100 100 100
. 2 3 4 5 6	### HEACACHE #### OF THE TOTAL COLORS OF THE	1 XX 1 XX 1 XX 1 XX 1 XX	OPERATED PATIENTS FIGURE WILL BOTTONS 1	\ \ \ \ \ \ \ \

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	PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS	PATIENT GROUPS AND MONITOR PARAMETERS	SUCKALUTE STANGARIES
1 2 3 4 5 6 7	902 OPERATED PATIENTS GIVEN GENERAL ANESTHESIA I WITH PREAMESTHESIA EVALUATION WITH ADMISSION HGB (HCT) RECORDED I WITH ADMISSION URINALYSIS RECORDED AGE 40+ WITH CHEST X-RAY AGE 40+ WITH CHEST X-RAY I AGE 40+ WITH COMEST X-RAY I WITH ADVERSE EFFECT FROM OVERDOSE OR WRONG ANES WITH OTHER ANESTHESIA MISADVENTURE	160 100 100 100 100 106 2	93: CARDIAC CATHETERIZATION (ANY PROCEDURE 37.21.37.33) 1 MORTALITY RATE (X) 2 X WITH USUAL NDICATION 393-396, 411-414, 745-747 3 X WITH ECG 4 X WITH ISCHEMIC HEART DISEASE (411-414) WITH ENZYME STUDY 5 X WITH POSTOPERATIVE COMPLICATION 6 X WITH DISCH INSTRUCTIONS UNDERSTOOD	100 100 100 100 0
<u> </u>	OPERATED OB-GYN PATIENTS		937. PRIMARY APPENDECTOMY	
2	90: ALL PATIENTS WITH OPERATIONS 1 WHO DIED IN OPERATING ROOM 1 WITH PREOPERATIVE AMESTHESIA EVALUATION 2 WITH SELECTED OPS WITH TISSUE CODED	100 100	(PRINCIPAL PROCEDURE 47.0) 1 MORTALITY RATE (%) 2 % WITH NORMAL TISSUE 3 % WITH WBC AND DIFFERENTIAL 4 % WITH POSTOPERATIVE COMPLICATION 5 % WITH NORMAL GI FUNCTION AT DISCHARGE	100
	902 OPERATED PATIENTS GIVEN GENERAL ANESTHESIA		938. HEMORRHO; DECT o my (Any procedure 49,46)	
1 2 3 4 5 6 7	% WITH PREAMESTHESIA EVALUATION % WITH ADMISSION HGB (HCT) RECORDED % WITH ADMISSION URINALYSIS RECORDED % AGE 40+ WITH CHEST X-RAY % AGE 40+ WITH ECG % WITH ADVERSE EFFECT FROM OVERDOSE OR WRONG ANES % WITH OTHER ANESTHESIA MISADVENTURE	100 100 100 100 100 100 0 0	MORTALITY RATE (%) 2 % WITH TISSUE CODED 3 % WITH ENDOSCOPIC PROCEDURE, 45.23, 45.24, OR 48.23 4 % WITH POSTOPERATIVE COMPLICATION 5 % WITH NORMAL GI FUNCTION AT DISCHARGE	100 100 100 100
	PROCEDURE GROUPS		939 CHOLECYSTECTOMY (ANY PROCEDURE 51.21 OR 51.22)	
3	912 LENS EXTRACTION (ANY PROCEDURE 13,1-13,6) MORTALITY RATE (%) % WITH VISION TESTING, 95 C1-95 C3 % WITH 9L000 SUGAR TEST % WITH 91570/FRATIVE COMPLICATION % WITH PISTO/FRATIVE COMPLICATION % WITH DISCH INSTRUCTIONS UNDERSTOOD	0 100 100 0 100	MORTALITY RATE (%) % WITH NORMAL TISSUE 3. % WITH LIVER FUNCTION STUDY 4. % WITH BILIARY TRACT X-RAY 87.51-87.59 5. % TRANSFUSED 6. % WITH POSTOPERATIVE COMPLICATION 7. % WITH PROGRESS SATISFACTORY AT DISCH	0 0 100 100 0 0 100
	920 TODIH EXTRACTION (ANY PROCEDURE 23.0-23.1) MORTALITY RATE (%) % WITH POSTOPERATIVE COMPLICATION % WITH DISCH INSTRUCTIONS UNDERSTOOD	0 100 1	940 [NGUINAL OR FEMORAL HERNIORRHAPHY (ANY PROCEDURE 53.00-53.39) 1 MORTALITY RATE (\$) 2 % WITH RECTAL EXAM 3 % WITH POSTOPERATIVE COMPLICATION 4 % WITH PROGRESS SATISFACTORY AT DISCH	100
·	92' TONS. L. ECTOMY AND ADEND/JECTOMY (ANY PROCEDURE 28.2, 28.3, OR 28.6)		955 PROSTATECTOMY (ANY PROCEDURE 60.2-60.6)	
9 4 5	MORTAL TY RATE (1) % UNDER 3 YEARS OF AGE % TRANSFISED % WITH POSTOPERATIVE COMP. CATION % WITH POSTOPERATURE TOP (3A 9) % WITH PEAK TEMPERATURE TOP (3A 9) % WITH PROGRESS SATISFACTORY AT DISCH	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	** MORTALITY RATE .%) 2 % WITH TISSUE CODED 3 % WITH RETROGRADE, PERCUTANEOUS, OR IV PYELOGRAPHY CYSTOSCOPY, OR NITROGEN DERIVATIVE TEST 4 % WITH URINE CULTURE 9: 32 9: 33 5 % WITH INTAKE-OUTPUT MONITORED 6 % WITH POSTOPERATIVE COMPLICATION 7 % WITH NORMAL URINARY FUNCTION AT DISCH	100 100 100
	930 - 53ch HEART SURGERY (ANY PROCEDURE 35,10-35,51 - 35 13-35,99, 37,5-37,64)			
2 3 4 5 6 7	MORTAL, THATS IN INCOME. THATS IN THE CARCHAC CHAGNOSIS; 390-398, 402, 404, 410-429 IN THE CHEST XHRAY IN WITH ECG. IN WITH ECG. IN WITH ENTAKE OUTPUT MONITORED. IN THE POSTOPERATIVE COMPLICATION. IN WITH DISCH INSTRUCTIONS UNDERSTOOD.	100 100 100 100 100 100	960 TUBAL LIGATION (ANY PROCEDURE 66.2-66.3, 66.5, OR 66.63* MORTALITY RATE (%) 2 % WITH PELVIC EXAM 3 % WITH POSTOPERATIVE COMPLICATION 4 % WITH PROGRESS SATISFACTORY AT DISCH	100 100

PATIENT GROUPS AND MONITOR PARAMETERS	SUGGESTED STANDARDS	PATIENT GROUPS AND MONITOH PALAMETERS	SUGGESTE"
96 ABDOM: NAL HYSTERECTOMY (ANY PROCECUPE 68.3-68.4)		. 1971 CLOSED, OPEN FRACTURE RETICT ON EXC MAR LIGHAL (ANY PROCEDURE 79.0-79.5)	\$
1 MORTALITY RAYE (%) 2 % WITH USUAL INDICATIONS 3 % WITH NORMAL TISSUE 4 % WITH SUBTOTAL HYSTERECTOMY, 68 3 5 % WITH PELVIC EXAM 6 % TRANSFUSED 7 % WITH PEAK TEMPERATURE 102 OR HIGHER 8 % WITH POSTORERATIVE COMPLICATION 9 % WITH PROGRESS SATISFACTORY AY DISCH	0 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MORTALITY RATE (%) % WITH SKELETAL X-RAY % OF THOSE WITH DPEN REDUCTION, TO 2-79 3 OF 79 5, WITH PROGRESS SATISFACTORY AT DISCH	000
	+	980 LOCAL EXCISION OF BREAST WITHOUT MASTECTOMY (ANY PROCEDURE 85.31.12, 85.20.73 W/O 85.41.48)	
962 VAGINAL HYSTERECTOMY (ANY PROCEDURE 68.5) MORTALITY RATE (%) 2 % WITH TISSUE CODED 3 % WITH PELVIC EXAM 4 % WITH PEAK TEMPERATURE 102 OR HIGHER 5 % WITH POSTOPERATIVE COMPLICATION 6 % WITH HOB NORMAL OR RISING AT DISCH	0 100 100 0 0	1 MORTALITY RATE (%) 2 % WITH TISSUE CODED 3 % WITH CA WITH SKEL V-RAY OR BONE SCAN 4. % WITH CA WITH CHEST X-RAY 5 % WITH CA WITH BEAM CHEMO OR ,MMUNE RY 6 % WITH POSTOPERSTIVE DOMESICATION 7 % WITH PROGRESS SATISFACTORY AT DISCH	100 1 100 100 100 100
963 D&C, ASPIRATION EXCEPT TO TERMINATE PREGNANC (ANY PROCEDURE 69.02, 69.09, 69.52 CR 69.59)	¥	98' MASTECTOMY (ANY PROCEDURE 85.41-85.48)	
(ANY PRICEDURE 69.02, 69.03, 0.032 CM 03.03) MORTALITY RATE (\$1 % WITH USUAL INDICATIONS % WITH NORMAL TISSUE AFTER DELIV, ABORY % WITH PELVIC EXAM % WITH PELVIC EXAM % WITH POSTOPERATIVE COMPLICATION % WITH PROGRESS SATISFACTORY AT DISCH	.00 .00 .00	. MORTALITY RATE (%) 2 % WITH MALISHANT OR BEN'GN NEOPLASM TISSUE REPORT 3. % WITH CA WITH BONE SCAN 92 '4 4 % TRANSFUSED 5 % WITH POSTOPEPATIVE COMPLICATION 6 % WITH PROGRESS SATISFACTORY AT DISCH	100
967 CESAREAN SECTION (ANY PROCEDURE 74.0-74.2, 74.4, OP "4.99)		982 LOCAL EXCISION OF SHIN LES ON (ANY PROCEDURE 86.21-86.3)	1
MORTALITY RATE (%) % WITH USUAL INDICATION % WITH USUAL INDICATION % WITH USUAL SECTION, 74.1 4 % TRANSFUSED % WITH PEAK TEMPERATURE 102 OR HIGHER % WITH POSTOPERATIVE COMPLICATION % WITH PROGRESS SATISFACTORY AT DISCH	0 100	MORTALITY RATE (%) % WITH TISSUE CODED % WITH THIS AS PRINCIPAL PROCEDURE GIVEN GEN ANESTHESIA, EXC LESION OF VULVA 4. % WITH POSTOPERATIVE COMPLICATION 5. % WITH DISCH INSTRUCTIONS UNDERSTOOD	100 100 1 c c c c c c c c c c c c c c c c c c c

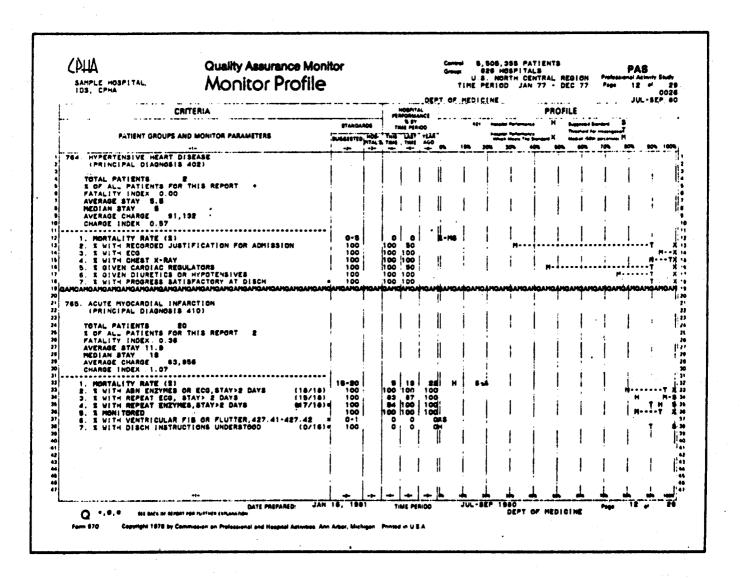


Fourth Generation

BASIC STATISTICS AND CRITERIA LIST

(Includes Suggested Standards)

A comparison of criteria available from the PAS Quality Control Data Set and the Basic Data Set





Commission on Professional and Hospital Activities **Professional Activity Study**

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JAN-DEC 79 NORTH CENTRAL REGION HOSPITALS: TIME PERIOD: U.S. N PATIENTS:

sured in the Monitor Profile against the The content of this report is based on a tion, and regional norms. (See the back of this suggested standards, thresholds for investigacomparison of the hospital performance meareport for definitions of these terms.) The groups monitored in QAM are presented in

1. "QAM GROUPS WITH NO MATERIAL! **DEVIATIONS**" 89

hospital performance for each criterion either the threshold for investigation. These groups These are the patient groups in which met the suggested standard or was above are listed separately because further investigation into the care of these patients may be considered of low priority relative to those in groups where material deviations occur.

"HIGHEST (or SECOND, THIRD, or FOURTH) PRIORITY FOR INVESTIGATION"

tal performance for at least one criterion is below the threshold) are analyzed by a statistical method which takes into account the nature of the criterion, the degree of the QAM groups with material deviations (hospideviation, and the proportion of criteria with material deviations.

For more explanation of how the suggested priorities are determined, refer to the back of

ALL HOSPITAL SUMMARY

Professional Activity Stud

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Patients Total

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HOSPITAL PERFORMANCE

YOUR PERFORMANCE FOR 1156 CRITERIA WAS USED FOR THIS GRAPH. SEE THE BACK OF THIS REPORT FOR DEFINITIONS OF STANDARD, THRESHOLD, AND MEDIAN.

DATE PREPARED:

MAY 22, 1982

TIME PERIOD:

JUL-SEP 1980

ALL HOSPITAL SUMMARY

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SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

CONTROL GROUP

4,621,152 642 JAN-DEC 79 NORTH CENTRAL REGION PATIENTS: HOSPITALS: TIME PERIOD

sured in the Monitor Profile against the suggested standards, thresholds for investigation, and regional norms. (See the back of this The content of this report is based on a comparison of the hospital performance mea report for definitions of these terms.) The groups monitored in QAM are presented in two lists:

1. "QAM GROUPS WITH NO MATERIAL DEVIATIONS"

gation into the care of these patients may be considered of low priority relative to those in These are the patient groups in which are listed separately because further investihospital performance for each criterion either the threshold for investigation. These groups met the suggested standard or was above groups where material deviations occur.

"HIGHEST (or SECOND, THIRD, or FOURTH) PRIORITY FOR INVESTIGATION"

QAM groups with material deviations (hospital performance for at least one criterion is statistical method which takes into account deviation, and the proportion of criteria with below the threshold) are analyzed by a the nature of the criterion, the degree of the material deviations

For more explanation of how the suggested priorities are determined, refer to the back of

ALL HOSPITAL SUMMARY QAM Group

JUL-SEP 80

Patients Total

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-											-
DEPARTMENT OF:	MEDICINE		SURGERY		SURGERY		SURGERY		08-GYN	08-6YN	
	. HYPERTENSIVE HEART DISEASE	(PRINCIPAL DIAGNOSIS 402)	. MALIGNANT NEOPLASM OF PROSTATE	(PRINCIPAL DIAGNOSIS'185)	. CIRRHOSIS	(PRINCIPAL DIAGNOSIS 571)	. FRACTURE OF RADIUS OR ULNA	(PRINCIPAL DIAGNOSIS 813)	. PATIENTS WITH ELEVATED ADM DIAS BP (EXC PREGNANCY)	. BREECH PRESENTATION, DELIVERED AS ANY DIAGNOSIS	(ANY DIAGNOSIS 652.2,669.6 WITH 5TH DIGIT 0,1 OR 2)
	764		713		828		980		405	862	•
	DEPARTMENT OF:	MEDICINE	MEDICINE	MEDICINE Surgery	MEDICINE SURGERY	MEDICINE SURGERY SURGERY	MEDICINE Surgery Surgery	MEDICINE SURGERY SURGERY SURGERY	MEDICINE SURGERY SURGERY SURGERY SURGERY	HYPERTENSIVE HEART DISEASE (PRINCIPAL DIAGNOSIS 402) (ALIGNANT NEOPLASM OF PROSTATE (PRINCIPAL DIAGNOSIS 185) (IRRHOSIS (PRINCIPAL DIAGNOSIS 571) (FRENCIPAL DIAGNOSIS 571) (FRENCIPAL DIAGNOSIS 813) (FRENCIPAL DIAGNOSIS 813) (FRENCIPAL DIAGNOSIS 813) (FRENCIPAL DIAGNOSIS 813)	MEDICINE SURGERY SURGERY DIAS BP (EXC PREGNANCY) OB-GYN ERED AS ANY DIAGNOSIS OB-GYN

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4,621,152 642 JAN-DEC 79 NORTH CENTRAL REGION U.S. N PATIENTS: HOSPITALS: TIME PERIOD:

content of this report is based on a companson of the hospital performance measured in the Monitor Profile against the suggested standards, thresholds for investigation, and regional norms. (See the back of this eport for definitions of these terms.) The groups monitored in QAM are presented in two lists:

1. "QAM GROUPS WITH NO MATERIAL **DEVIATIONS**" 91

gation into the care of these patients may be These are the patient groups in which the threshold for investigation. These groups considered of fow priority relative to those in hospital performance for each criterion either met the suggested standard or was above are listed separately because further investigroups where material deviations occur.

"HIGHEST (or SECOND, THIRD, or FOURTH) PRIORITY FOR INVESTIGATION"

below the threshold) are analyzed by a statistical method which takes into account the nature of the criterion, the degree of the tal performance for at least one criterion is deviation, and the proportion of criteria with QAM groups with material deviations (hospimaterial deviations.

For more explanation of how the suggested priorities are determined, refer to the back of

Total Patients		2,211	6.0	146	_	100				 	38	-			-	8	D		 .	60		-		- 1		l 	-	4	73	<u>~</u> _
		DEPARTMENT OF: HOSPITALWIDE	HOSPITALVIDE			MEDICINE	MEDICINE MEDICINE	MEDICINE		MEDICINE	MEDICINE		MEDICINE	MEDICINE		MEDICINE	MEDICINE		MEDICINE	MEDICINE			MEDICINE	MEDICINE	MEDICINE		MEDICINE	MEDICINE	SURGERY	SURGERY
QAM Group	HIGHEST PRIORITY FOR INVESTIGATION	001. ALL PATIENTS, BASIC WORKUP	002. PATIENTS WITH ELEVATED ADM DIAS BP (EXC PREGNANCY)			ALL PATIENTS,	202. PATIENTS WITH ELEVATED ADM DIAS BP (EXC PREGNANCY) 206. BATIENTS WITH WEINE BOSITIVE ERD SIDAD	_	PRINCIPAL DIAGNOSIS 162)	716. UTERINE LEIOHYCMA	731. DIABETES MELLITUS, ADULT		735. ANEMIA (PRINCIPAL DIAGNOSIS 280-285)	765. ACUTE MYGCARDIAL INFARCTION		773. CEREBROVASCULAR DISEASE (PRINCIPAL DIAGNOSIS 430-438)	775. PHLEBITIS AND THROMBOPHLEBITIS	(PRINCIPAL DIAGNOSIS 451)	828. CIRRHOSIS	(PRINCIPAL DIAGNOSIS 571) 647. Ureteral Calculus	(PRINCIPAL DIAGNOSIS 592.1)		650. DISORDERS OF MENSTRUATION	I AND DISPLACEMENT OF LUMBAR DISC	(PRINCIPAL DIAGNOSIS 722.10,.32,.52,.73,.83,.93) 663. Abdominal Pain		890. FRACTURE OF RADIUS OR ULNA	CONCUSSION	(PRINCIPAL DIA	302. PATIENTS WITH ELEVATED ADM DIAS BP (EXC PREGNANCY)

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Quality Assurance Monitor Priority For Investigation

0026 JUL-SEP 80

ALL HOSPITAL SUMMARY

QAM Group

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Total

Professional Activity Study

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SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

CONTROL GROUP

PATENTS: NORTH CENTRAL REGION
4, 621, 152
HOSPITALS: 642
TIME PERIOD: JAN-DEC. 79

omparison of this report is based on a comparison of the hospital performance measured in the Monitor Profile against the suggested standards, thresholds for investigation, and regional norms. (See the back of this report for definitions of these terms.)

The groups monitored in QAM are presented in two lists:

1. "QAM GROUPS WITH NO MATERIAL, DEVIATIONS"

These are the patient groups in which hospital performance for each criterion either met the suggested standard or was above the threshold for investigation. These groups are listed separately because further investigation into the care of these patients may be considered of low priority relative to those in groups where material deviations occur.

"HIGHEST (or SECOND, THIRD, OF FOURTH) PRIORITY FOR INVESTIGATION"

QAM groups with material deviations (hospital performance for at least one criterion is below the threshold) are analyzed by a statistical method which takes into account the nature of the criterion, the degree of the deviation, and the proportion of criteria with, material deviations.

For more explanation of how the suggested priorities are determined, refer to the back of this report

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	HIGHEST PRIGRITY FOR INVESTIGATION (CONTINUED)	ION (CONTINUED) DEPARTMENT OF:	
309.	_		178
710.	_	SURGERY	Ю
			-
714.	MALIGNANT NEOPLASM OF BLADDER	SURGERY	-
i	(PRINCIPAL DIAGNOSIS 188)		
731.	DIABETES MELLITUS, ADULT	SURGERY	4
768	ATTICITY BOOK OF THE BOOK OF T	V010013	
	CPRINCIPAL DIAGNOSIS 410)	SONOE AL	-
770.	_	SURGERY	8
•			
772.	HEART FAILURE	SURGERY	-
	(PRINCIPAL DIAGNOSIS 428)		
827.		SURGERY	-
	(PRINCIPAL DIAGNOSIS 562)		
847.	URETERAL CALCULUS	SURGERY	1 0
	(PRINCIPAL DIAGNOSIS 592.1)		
849.	BENIGN PROSTATIC HYPERTROPHY	SURGERY	9
			_
876.	DERANGEMENT AND DISPLACEMENT OF LUMBAR DISC	SURGERY	S
	(PRINCIPAL DIAGNOSIS 722, 10, 32, 52, 73, 83, 93)		
891.	FRACTURE OF UPPER END OF FEMUR	SURGERY	
892	_	SURGERY	N
	(PRINCIPAL DIAGNOSIS 850)		
901	-	GPERATED	1,106
920.	•	OPERATED	2
	(ANY PROCEDURE 23.0-23.1)		
156	CARDIAC CAIHELERIZATION	OPERATED	12
196	ABOOMINAL HYSTERFOLDINA	CPERATED	76
;	(ANY PROCEDURE 68.3-68.4)		Ì
962.	VAGINAL HYSTERECTOMY	OPERATED	-
	(ANY PROCEDURE 68.5)		?
963.	D&C, ASPIRATION EXCEPT TO TERMINATE PREGNANCY	OPERATED	
	(ANY PROCEDURE 69.02,69.09,69.52, OR 69.59)		
971.	CLOSED, OPEN FRACTURE REDUCTION (EXC MAXILLOFACIAL)	OPERATED	29
982.		OPERATED	42
	(ANY PROCEDURE 86.21-86.3)		

CONTRACTOR OF THE PROPERTY OF

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

CONTROL GROUP

PATIENTS: HOSPITALS: TIME PERIOD:

4,621,152 642 JAN-DEC 79

sured in the Monitor Profile against the The content of this report is based on a non, and regional norms. (See the back of this comparison of the hospital performance measuggested standards, thresholds for investigareport for definitions of these terms.)
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1. "QAM GROUPS WITH NO MATERIAL! 6 DEVIATIONS"

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"HIGHEST (or SECOND, THIRD, or FOURTH)
PRIORITY FOR INVESTIGATION"

tal performance for at least one criterion is below the threshold) are analyzed by a deviation, and the proportion of criteria with QAM groups with material deviations (hospithe nature of the criterion, the degree of the statistical method which takes into account material deviations.

For more explanation of how the suggested priorities are determined, refer to the back of

ALL HOSPITAL SUMMARY

0026 JUL-SEP 60

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Patients Total

Professional Activity Study

QAM Group

PATIENTS WITH ADMISSION HOBSIO GMS (HCT<30S) PEDIATRIC PATIENTS WITH ABNORMAL BLOOD SUGAR	_	
WITH ABNORMAL BLOOD SUGAR		<u>-</u>
		5
WITH URINE POSITIVE FOR SUGAR	_	9
ACUTE BRÖNCHITIS, PEDIATRIC PEDIATRIC	RIC MEDICINE	10
- DIAGNOSIS 466)		7.
ASTHMA, PEDIATRIC PEDIATRIC	RIC MEDICINE	<u>e</u> 0
(PRINCIPAL DIAGNOSIS 493)	-	
RHEUMATGID ARTHRITIS PEDIATRIC	RIC MEDICINE	<u>-</u>
L DIAGNOSIS 714)		_ =
•	RIC MEDICINE	۔ ان
(PRINCIPAL DIAGNOSIS 769.0)		:
S WITH ADMISSION HOBAID GHX (HCT<30X)		24
ALCOHOL DEPENDENCE SYNDROME AS ANY DIAGNOSIS MEDICINE	NE	^
NGS 1S 303)	ļ	-= (
Ŧ.		<u>-</u> .
(PRINCIPAL DIAGNOSIS 401)		= =
۲.		e i
įŽ	Li Z	, ,
LOINGE ARE	-	•
, ,		7.5
L DIAGNOSIS 480-486)	!	'!`
•	N. C.	16
_ DIAGNOSIS 492,494-496)		٠.
		1. 10 10
DIAGNOSIS 493)	!	 1
LCER, UNCOMPLICATED	¥	 G
CTRINCIPAL DIAGRADUG DGI.GO, DGI. YO DR DGI.GO)		11 L
L DIAGNOSTS 562)		
		0
IPRINCIPAL DIAGNOSIS 786.5)		<u> </u>
WITH ADMISSION HOBAID GMX (HCT < 30X)	>	- 9 -
S WITH OTHER DRUG THERAPY	>	165
ALCOHOL DEPENDENCE SYNDROME AS ANY DIAGNOSIS SURGERY	 -	0
MGS1S 303)		
L DIAGNOSIS 401)		. <u>-</u>
ANGINA PECIONIO Porincidal Diagrafia Also		 >
A AND SLOWED	~ >	4
L DIAGNOSIS 426-427)		•
CEREBROVASCULAR DISEASE SURGERY	~ *	•
(PRINCIPAL DIAGNOSIS 430-438)		
AND THROTBOTHLEBILLS	•	"
		-

TIME PERIOD

Quality Assurance Monitor Priority For Investigation

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

CONTROL GROUP

4,621,152 642 JAN-DEC-79 PATIENTS: NORTH CENTRAL REGION
4,621,11
HOSPITALS: 645

The content of this report is based on a sured in the Monitor Profile against the suggested standards, thresholds for investigation, and regional norms. (See the back of this comparison of the hospital performance meaapon for definitions of these terms.) The groups monitored in QAM are presented in wo lists:

1. "QAM GROUPS WITH NO MATERIAL DEVIATIONS"

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"HIGHEST (or SECOND, THIRD, or FOURTH) PRIORITY FOR INVESTIGATION"

statistical method which takes into account tal performance for at least one criterion is below the threshold) are analyzed by a the nature of the criterion, the degree of the deviation, and the proportion of criteria with QAM groups with material deviations (hospimaterial deviations

For more explanation of how the suggested priorities are determined, refer to the back of this report

ALL HOSPITAL SUMMARY

JUL-SEP 60

Patients Total

0026

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rofessional Activity Study

QAM Group

AND CORE VETING OF 1 50	DEPARTMENT OF:	
(PRINCIPAL		•
	SURGERY	
(PRINCIPAL		
•	SURGERY	(7)
CER, UNCOMPLICATED	SURGERY	_
		-
	SURGERY	•
		,
962. CHEST PAIN	SURGERY	~
(PRINCIPAL DIAGNOSIS 786.5)		
883. ABDOMINAL PAIN	SURGERY	
(PRINCIPAL DIAGNOSIS 789.0)		
401. A. ALL DESTETRICS PATIENTS. BASIC WORKUP	NAD-80	191
B. ALL GYNECOLOGY PATIENTS	08-GYN	
PATIENTS WITH ABNORMAL BLOOD	NA9-90	-
PATIENTS G	NA9-90	7
EMPHYSEMA	XX0-80	
(PRINCIPAL		
850. DISORDERS OF MENSTRUATION	08-6YN	22
(PRINCIPAL DIAGNOSIS 626.0-626.9)		
860. ABORTION AS ANY DIAGNOSIS	GB-GYN	2
(ANY DIAGNOSIS 634-637)		
861. DELIVERY AS ANY DIAGNOSIS	0B-6YN	124
(ANY DIAG 641-676, 5TH DIGIT 0,1,2 WHERE APPLIC)		
	NEVBORN	123
912. LENS EXTRACTION	OPERATED	9
(ANY PROCEDURE 13.1-13.6)		
. TÖNSILLECTÖMY AND ADENDIDECTÖMY	OPERATED	77
		•
937. PRIMARY APPENDECTOMY	OPERATED	
(PRINCIPAL PROCEDURE 47.0)		
-	OPERATED	O
ANY DESCRIPTION OF STREET		-

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HOSPITALWIDE	HOSPITALVIDE	HOSPITALWIDE	HOSP TALW DE	PEDIATRIC MEDICINE
. PATIENTS WITH URINE POSITIVE FOR SUGAR	PATIENTS GIVEN ANTICOAGULANTS	PATIENTS GIVEN DIURETICS	PATIENTS WITH OTHER DRUG THERAPY	ALL PATIENTS, BASIC WORKUP
	ζ.	Ġ	010	

92 82 436 500 311

ALL HOSPITAL SUMMARY

JUL-SEP 1980

TIME PERIOD:

MAY 22, 1982

DATE PREPARED

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

CONTROL GROUP

4,621,153 PATIENTS. NORTH CENTRAL REGION JAN-DEC 79

suggested standards, thresholds for investigation, and regional norms. (See the back of this-The content of this report is based on a sured in the Monitor Profile against the comparison of the hospital performance meareport for debrations of these terms) The groups monitored in QAM are presented in two lists:

G 1. "QAM GROUPS WITH NO MATERIAL DEVIATIONS"

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"HIGHEST (or SECOND, THIRD, or FOURTH) PRIORITY FOR INVESTIGATION"

tal performance for at least one criterion is: QAM groups with material deviations (hospibelow the threshold) are analyzed by a deviation, and the proportion of criteria with, statistical method which takes into account the nature of the criterion, the degree of the

For more explaintion of how the suggested priorities are untermined, refer to the back of

Professional Activity Study

	ALL HOSPITAL SUMMARY		JUL-SEP 8
	QAM Group		Total
	÷		Patients -2.
	THIRD PRIORITY FOR INVESTIGATION	(CONTINUED)	
7		DEPARTMENT OF:	
. 200	_	PEDIAIRIC MEDICINE	-
757.	TIS MEDIA	PEDIATRIC MEDICINE	=
803.	PNEUMÖNIA, PEDIATRIC	PEDIATRIC MEDICINE	17
826.		PEDIATRIC MEDICINE	
	(PRINCIPAL DIAGNOSIS 532-534 WITH . 30, . 70, OR . 90)		
207.	LANTS	MEDICINE	22
209.	PATIENTS GIVEN DIUKETICS	MEDICINE	236
2.6	PALIENIS WILH CHEK URUG INEKAPY DATIENTS IDANSFISED	MEDIC NE	80 60
702	INTESTINAL INFECTIOUS DISEASE, ADULT	MEDICINE	• ^
i	(PRINCIPAL DIAGNOSIS 001-009)		•
713.	MALIGNANT NEOPLASM OF PROSTATE	MEDICINE	-
740	CTRINCITAL CINCING 100)	MED I C. NE	•
	(PRINCIPAL DIAGNOSIS 290, 294, OR 310)	1	•
745.	Z	MEDICINE	
ļ	DIAGNOSIS		•
756.	CONVULSIVE DISCRDERS, ADULT	MEDICINE	=
786.	ANGINA PECTOR *	MEDICINE	6
	(PRINCIPAL DINGNOSIS 413)		
768.	MISCELLANEGUS ISCHEMIC HEART DISEASE	MEDICINE	2
769	PULMONAR TWENTS AS ANY DIABNOSIS MEDICAL		
772.	HEART FAILURE	MEDICINE	36
826	(PRINCIPAL DIAGNOSIS 428)		Ċ
) i			3
829.	PANCREAS, MEDICAL	MEDICINE	
631	CPRINCIPAL DIAGNOSIS 577) DASTROINTENTINAL HEMOBBLADE		•
3	(PRINCIPAL DIAGNOSIS 578)	AEDI CI NE	N
846.		MEDICINE	.
,	(PRINCIPAL DIAGNOSIS 592.0)		
0 0 0	CTSTITES (PRINCIPAL DIAGNOSIS 595)	MEDICINE	N
875.	ARTHRITIS	MEDICINE	.
AA	(PRINCIPAL DIAGNOSIS 714) Headache		•
3	(PRINCIPAL DIAGNOSIS 784.0)	AEDICINE	
307.	PATIENTS GI	SURGERY	3

Quality Assurance Monitor

Priority For Investigation

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

CONTROL GROUP

4,621,152 NORTH CENTRAL REGION JAN-DEC 79 TIME PERIOD: U.S. PATIENTS: HOSPITALS

The content of this report is based on a sured in the Monitor Profile against the suggested standards, thresholds for investigation, and regional norms. (See the back of this companson of the hospital performance meaThe groups monitored in QAM are presented in two lists:

report for definitions of these terms.)

91. "QAM GROUPS WITH NO MATERIAL DEVIATIONS"

X OF CRITERIA

the threshold for investigation. These groups These are the patient groups in which hospital performance for each criterion either met the suggested standard or was above are listed separately because further investigation into the care of these patients may be considered of low priority relative to those in groups where material deviations occur.

"HIGHEST (or SECOND, THIRD, or FOURTH) PRIORITY FOR INVESTIGATION"

QAM groups with material deviations (hospibelow the threshold) are analyzed by a tal performance for at least one criterion is statistical method which takes into account the nature of the criterion, the degree of the deviation, and the proportion of criteria with material deviations

For more explanation of how the suggested priorities are determined, refer to the back of this report

ALL HOSPITAL SUMMARY QAM Group

0026 JUL-SEP 80

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Patients Total ċ

Professional Activity Study

PAS

> * *																18%	******				张张张张张张张	BELOW MEDIAN
MARAKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK															24%	********	*	*	*	*	接接接接接接接接接接接接接接接接接接接接接接接接接接接	BETWEEN MEDIAN AND THRESHOLD
2 X X X X X X X X X X X X X X X X X X X																*	*	*	*	* *	**********	BETWEEN THRESHOLD AND STANDARD
C. **									57%	******	×	*	*	*	*	*	*	*	*	*	英米米米米米米米米米米米米米米米米	EQUAL TO STANDARD
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HOSPITAL PERFORMANCE

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YOUR PERFORMANCE FOR 1156 CRITERIA WAS USED FOR THIS GRAPH. SEE THE BACK OF THIS REPORT FOR DEFINITIONS OF STANDARD. THRESHOLD, AND MEDIAN.

MAY 22, 1982 DATE PREPARED

TIME PEHIOD

JUL - SEP 1990

Page HOSPITAL SUMMARY

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

CONTROL GROUP

4,621,152 NORTH CENTRAL REGION JAN-DEC 79 D.S. I PATIENTS. HOSPITALS. TIME PERIOD

764.

content of this report is based on a sured in the Monitor Profile against the tion, and regional norms. (See the back of this comparison of the hospital performance measuggested standards, thresholds for investigaeport for definitions of these terms.)

The groups monitored in QAM are presented in wo lists

"QAM GROUPS WITH NO MATERIAL **DEVIATIONS**" 97

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"HIGHEST (or SECOND, THIRD, or FOURTH) PRIORITY FOR INVESTIGATION" ri

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SUMMARY	
HOSPITAL	
ALL	

Patients Total

Professional Activity Study PAS

0026 JUL-SEP 80

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QAM Group

NO MATERIAL DEVIATIONS

HYPERTENSIVE HEART DISEASE (PRINCIPAL DIAGNOSIS 402) MALIGNANT NEOPLASM OF PROSTATE (PRINCIPAL DIAGNOSIS 185)

(PRINCIPAL DIAGNOSIS 571) FRACTURE OF RADIUS OR ULNA CI RRHOSIS

BREECH PRESENTATION, DELIVERED AS ANY DIAGNOSIS (ANY DIAGNOSIS 652.2, 669.6 WITH 5TH DIGIT 0, 1 OR 2) PATIENTS WITH ELEVATED ADM DIAS BP (EXC PREGNANCY) (PRINCIPAL DIAGNOSIS 813) 890. 862.

SURGERY SURGERY SURGERY

DEPARTMENT OF: 08-6YN 08-6YN

DATE PREPARED

MAY 22, 1982

JUL - SEP 1980

om 871-8-79 Common 1978 by Commission on Professional and Hospital Activities, Ann Arbor, Michigan Printed in U.S.A.

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SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

CONTROL GROUP

4,621,152 642 JAN-DEC 79 NORTH CENTRAL REGION DATIENTS. TIME PERIOD

The content of this report is based on a suggested standards, thresholds for investigacomparison of the hospital performance measured in the Monitor Profile against the tion, and regional norms. (See the back of this eport for definitions of these terms.)

711. 712. 716. 731.

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The groups monitored in QAM are presented in

"QAM GROUPS WITH NO MATERIAL **DEVIATIONS**"

These are the patient groups in which hospital performance for each criterion either met the suggested standard or was above the threshold for investigation. These groups are listed separately because further investigation into the care of these patients may be considered of low priority relative to those in groups where material deviations occur

PRIORITY FOR INVESTIGATION"

tal performance for at least one criterion is below the threshold are analyzed by a statistical method which takes into account the nature of the criterion, the degree of the QAM groups with material deviations (hospideviation, and the proportion of criteria with

priorities are determined, refer to the back of For more explanation of how the suggested

ALL HOSPITAL SUMMARY

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Professional Activity Study

JUL-SEP 80 Total Patients DEPARTMENT OF: PEDIATRIC MEDICINE PEDIATRIC MEDICINE PEDIATRIC MEDICINE HOSPITALWIDE HOSPITALWIDE MEDICINE MEDICINE YEDICINE YEDICINE 1EDICINE **JEDICINE JEDICINE** 1EDICINE 1ED1 CINE 1EDICINE 1EDICINE HIGHEST PRIORITY FOR INVESTIGATION PATIENTS WITH ELEVATED ADM DIAS BP (EXC PREGNANCY)
PATIENTS GIVEN ANTIBIOTICS
PATIENTS GIVEN DIURETICS ALL PATIENTS, BASIC WORKUP
PATIENTS WITH ELEVATED ADM DIAS BP (EXC PREGNANCY)
PATIENTS WITH URINE POSITIVE FOR SUGAR MALIGNANT NEOPLASM OF LUNG, BRONCHUS, TRACHEA QAM Group (PRINCIPAL DIAGNOSIS 174-175) PRINCIPAL DIAGNOSIS 430-438) PRINCIPAL DIAGNOSIS 280-285) MALIGNANT NEOPLASM OF BREAST CUTE MYOCARDIAL INFARCTION BASIC WORKUP (PRINCIPAL DIAGNOSIS 850) DIABETES MELLITUS, ADULT (PRINCIPAL DIAGNOSIS 250) PRINCIPAL DIAGNOSIS 410) (PRINCIPAL DIAGNOSIS 162) (PRINCIPAL DIAGNOSIS 218) PRINCIPAL DIAGNOSIS 451) CEREBROVASCULAR DISEAS UTERINE LEIGHYOMA

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" 'GHEST (or SECOND, THIRD, or FOURTH)

material deviations

	(TRINCIPAL DIAGNOSIS 454)		
828		MEDICINE 6	و ع
	(PRINCIPAL DIAGNOSIS 571)		31
847	URETERAL CALCULUS	MEDICINE	32
	(PRINCIPAL DIAGNOSIS 592.1)		33
849.	BENIGN PROSTATIC HYPERTROPHY	MEDICINE	۵ ک
	(PRINCIPAL DIAGNOSIS 600)		ť
850.	DISCREERS OF MENSTRUATION	MEDICINE	÷
	(PRINCIPAL DIAGNOSIS 626,0-626.9)		7
876.		MEDICINE 17	ر ث
	(PRINCIPAL DIAGNOSIS 722.10, 32, 52, 73, 83, 93)		ī
883.	ABDOMINAL	MEDICINE	\$ 8
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.069	FRACTURE OF KADIUS OR ULNA	MEDICINE	4
	(PRINCIPAL OTAGNOSIS 813)		7
892.		MEDICINE 4	4 34
	(PRINCIPAL DIAGNOSIS 850)		4,
301.	to!	SURGERY 731	35
302.	PATIENTS WITH FLEVATED ADM DIAS BP (EXC PREGNANCY)	SURGERY 13	., C
			30 *?

MEDICINE

DATE PREPARED

ALL HOSPITAL SUMMARY

0026

Professional Activity Study

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

CONTROL GROUP

U.S. NORTH CENTRAL REGION JAN-DEC 79 IME PERIOD

suggested standards, thresholds for investigaured in the Monitor Profile against the The content of this report is based on a omparison of the hospital performance meaion, and regional norms. (See the back of this eport for definitions of these terms.)

The groups monitored in QAM are presented in

1. "QAM GROUPS WITH NO MATERIAL: **DEVIATIONS**" 99

These are the patient groups in which met the suggested standard or was above the threshold for investigation. These groups are listed separately because further investiconsidered of low priority relative to those in hospital performance for each criterion either gation into the care of mese patients may be groups where material deviations occur.

"HIGHEST (or SECOND, THIRD, or FOURTH) PRIORITY FOR INVESTIGATION"

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For more explanation of how the suggested priorities are determined, refer to the back of

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SAMPLE HOSPITAL IDS, CPHA

ALL HOSPITAL SUMMARY

QAM Group

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0026 JUL-SEP 80

Total Patients

Professional Activity Study

QUALITY ASSURANCE MONITOR

CONTROL GROUP

4,621,152 642 JAN-DEC 79 ATIENTS IOSPITALS IME PERIOD

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"HIGHEST (or SECOND, THIRD, or FOURTH) PRIORITY FOR INVESTIGATION"

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			2	- 0
7.7	103.		PEDIATRIC MEDICINE	
	106	PATIENTS	PEDIATRIC MEDICINE	ნ დ ჰ ა
	801.	ACUTE BRONCHITIS, PEDIATRIC (PRINCIPAL DIAGNOSIS 466)	PEDIATRIC MEDICINE	10
	807.		PEDIATRIC MEDICINE	10 8
	875.	ID ARTHRITIS	PEDIATRIC MEDICINE	
. ==	883.	ָר ֻּ	PEDIATRIC MEDICINE	2 = 2
	7	(PRINCIPAL DIAGNOSIS 789.0)		13
	203.	PATIENTS WITH ADMISSION HOBALO GM% (HCTA30%) Alcohol dependence syndrome as any diagnosis	MEDICINE MEDICINE	24 7 24 7
		GNØS1S 303)		
	763.	ESSENTIAL HYPERTENSION	MEDICINE	12 17
	771	ARRHYTHMIA AND SLOWED CONDUCTION	MEDICINE	25 35 35 35
		٩F		
	802.	S S	MEDICINE	7 21
		٦		£.
	804	PNEUMONIA, ADULT	MEDICINE	2
	.908	EMPHYSEMA AND OTHER COPD	MEDICINE	16
		(PRINCIPAL DIAGNOSIS 492, 494-496)		ع د
	808	ASTHMA, ADULT	MEDICINE	25
	825	(PRINCIPAL DISENSIS 493)	ייים ביים ביים ביים ביים ביים ביים ביים	<u>.</u> د د
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	827.	DIVERTICULAR ** SEASE	MEDICINE	, E
_	882.	51504	MEDICINE	≆ ≊ 20
		AL DIAGNOSIS 786.5)		
	303.			18 %
	30.0	DIDITION THER DRUG THERAPY		
	/46	ALCOHOL DEPENTENCE SYNDROME AS ANY DIAGNOSIS (ANY DIAGNOS) 303)	SURGERY	
	763.	L HY!	SURGERY	د
		(PRINCIPAL DiviNOSIS 401)		
_	766.	ECJ	SURGERY	<u>ن</u>
	771	ے :	SHRBERY	4
	273	(PRINCIPAL D'ACNOSIS 426-427)		
		CERTEDACTOR OF SERVER ADDIANA	SURGERY	÷, 20

(PRINCIPAL DIACHOSIS 430-438) PHUEBITIS AND PROMBOPHLEBITIS

PHEFBIT: S AND (PRINC, 17A

D. . . NOS1S 4511

SURGERY SURGERY

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Priority For Investigation **Quality Assurance Monitor**

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

CONTROL GROUP

PATIENTS NORTH CENTRAL REGION
4,621,152 JAN-DEC 79 TIME PERIOD

The content of this report is based on a non, and regional norms. (See the back of this omparison of the hospital performance measured in the Monitor Profile against the uggested standards, thresholds for investigaeport for definitions of these terms.) he groups monitored in QAM are presented in.

"QAM GROUPS WITH NO MATERIAL DEVIATIONS" -101

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"HIGHEST (or SECOND, THIRD, or FOURTH) PRIORITY FOR INVESTIGATION"

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For more explanation of how the suggested priorities are determined, refer to the back of

ALL HOSPITAL SUMMARY QAM Group

JUL-SEP BC

Patients Total

Professional Activity Study

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THIRD PRICILLY FOR INVESTIGATION

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ALL HOSPITAL SUMMARY

JUL-SEP 1980

TIME PERIOD

MAY 22, 1982

DATE PREPARED

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Quality Assurance Monitor Priority For Investigation

SAMPLE HOSPITAL IDS, CPHA

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ALL HOSPITAL SUMMARY

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Professional Activity Study

PAS

QUALITY ASSURANCE MONITOR

CONTROL GROUP

D.S. NORTH CENTRAL REGION
PATIENTS
HOSPITALS
TIME PERIOD
JAN-DEC 79

The content of this report is based on a comparison of the hospital performance measured in the Monitor Profile against the suggested standards, thresholds for investigation, and regional norms. (See the back of this report for definitions of these terms.)

The groups monitored in QAM are presented in two lists

DEVIATIONS"

These are the patient groups in which hospital performance for each criterion either met the suggerted standard or was above the threshold for investigation. These groups are listed separately because further investigation into the rare of these patients may be considered of low priority relative to those in groups where material deviations occur.

2. "HIGHEST (or SECOND, THIRD, or FOURTH) PRIORITY FOR INVESTIGATION"

AAM groups with material deviations (hospital performance) for at least one criterion is below the threshold) are analyzed by a statistical method which takes into account the nature of the criterion, the degree of the deviation of criteria with material deviations.

MEDICINE MEDICINE MEDICINE SURGERY

For more exploration of how the suggested provides are determined, refer to the back of this report.

(PRINCIPAL DIAGNOSIS 784.0)
PATIENTS GIVEN ANTICOAGULANTS

PRINCIPAL DIAGNOSIS 714)

HEADACHE

ARTHRITIS

(PRINGIPAL RHEUMATOID

CYSTITIS

848. 875. 881.

Priority For Investigation **Quality Assurance Monitor**

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

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4,621,152 U.S. NORTH CENTRAL REGION HOSPITALS TIME PERIOD

JAN-DEC 79

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HOSPITAL PERFORMANCE

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MAY 22, 1982 DATE PREPARED.

TIME PERIOD

JUL-SEP 1980

DEPT OF SURGERY

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Priority For Investigation

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

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4,621,152 642 JAN-DEC 79 PATIENTS 4,621,15
HOSPITALS 642
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Total Patients

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NO MATERIAL DEVIATIONS

MALIGNANT NEOFLASM OF PROSTATE (PRINCIPAL DIAGNOSIS 185) CI RRHOS I S 713. 828.

(PRINCIPAL DIAGNOSIS 571)
FRATTURE OF RADIUS OR ULNA (PRINCIPAL DIAGNOSIS 813) 890.

TIME PERIOD MAY 22, 1962

DATE PREPARED

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JUL-SEP 1980

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Priority For Investigation **Quality Assurance Monitor**

SAMPLE HOSPITAL IDS, CP:IA

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4,621,152 U.S. NORTH CENTRAL REGION JAN-DEC 79 HOSPITALS: TIME PERIOD PATIENTS

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Total Patients

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HIGHEST PRIORITY FOR INVESTIGATION

ALL PATIENTS, BASIC WORKUP PATIENTS WITH FLEVATED ADM DIAS BP (1%C PREGNANCY) PATIENTS GIVEN DIURETICS

MALIGNANT NEOPLESM OF LARGE INTESTINE (PRINCIPAL DISCRISTS 153)
MAI IGNANT NEOLIESM OF BLADDER

(PRINCIPAL DIACHOSIS 188)

DIABETES MELLITUS, ADULT (PRINCIPAL DIMEROSIS 250) 731.

ACUTE MYOCARIUM INFARCTION

(PRINCIPAL DIAGNOSIS 410) 770.

PULHONARY EMBOLISM AS ANY DIAGNOSIS, SURGICAL (APIY DIAGNOSIS 415.1)

HELTT FAILURE 772.

(PRINCIPAL DIAGNOSIS 428) BENIGH PROSTATIC HYPERIROPHY 849.

(PRINCIPAL DIAGNOSIS 500)

DEPARGEMENT AND DISPLACEMENT OF LIMBAR DISC 876.

(PRINCIPAL DIAGNOSIS 722.10, 32, 52, 73, 83, 53) FRACTURE OF UPPER END OF FEMUR

891.

(PRINCIPAL DIAGNOSIS 820) CONCUSSION 892.

PRINCIPAL DIAGNOSIS 850)

SECOND PRIDRITY FOR INVESTIGATION

DEPENDENCE SYNDROME AS ANY DIAGNOSIS (ANY DIAGNOSIS 503) ALCOHOL 746.

(PRINCIPAL DIACNOSIS 401)
ANGINA PECTORIS

ESSENTIAL HYPERIENSION

763.

766.

771.

(PRINCIPAL DIACHOSIS 413)
ARRHYTHMIA AND SLOWED CONDUCTION
(PRINCIPAL DIACHOSIS 426-427)

PHI CBITIS AND THROMBOPHLEBITIS (PELINCIPAL DIACHOSIS 430-438) CERFBROVASCULAR DISEASE 775.

(PRINCIPAL DIAGNOSIS 451) VARICOSE VEINS OF LEG 776.

(PRINCIPAL DIAGNOSIS 454)
EMPHYSEMA AND OTHER COPD
(PRINCIPAL DIAGNOSIS 492,494-496)
GASTRIC ULCER, UNCONPUICATED 806.

(PRINCIPAL DIACHOSIS 531.30,531.70 OF 531.90) 825.

TIME PERIOD MAY 22, 1982 DATE PREPARED

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JUL-SEP 1980

Priority For Investigation

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

COP TROL GROUP

U.S. NORTH CENTRAL REGION JAN-DEC 79 TIME PERIOD HOSPITALS

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For more explanation of how the suggested priorities are the termined, refer to the back of

DELL OF SURGERY

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Patients

Total

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QAM Group

SECOND PRIORITY FOR INVESTIGATION (CONTINUED)

(PRINCIPAL DIAGHOSIS 562) DIVERTICULAR DISEASE 827. 847.

(PRINCIPAL DIAGNOSIS 592.1) CYSTITIS 848

(PRINCIPAL DIAGNOSIS 595) CHEST PAIN 882.

(PRINCIPAL DIACHOSIS 786.5)

THIRD PRIORITY FOR INVESTIGATION

PATIENTS WITH ANMISSION HOB<10 GMX (HCT<30X)
PATIENTS GIVEN ANTICOAGULANTS
PATIENTS WITH OTHER DRUG THERAPY 303. 307. 310.

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165

PATIENTS
INTESTINATION OF THE STATE OF THE S BENIGH URLASI DISEASE 67.

(PRINCIPAL DIRGNOSIS 217 OR 610) ANLMIA 735.

(PRINCIPAL DIACHOSIS 280-235)
CONVULSIVE DISCROERS, ADULT
(PRINCIPAL DIACHOSIS 345 OR 780.3) 756.

CHEONIC OTITIS LEDIA 757.

382.1-382.9) (PRINCIPAL DESCROSES 381,1-381,4, ACUTE UPPER RESPIRATORY INFECTION (PRINCIPAL DIAGNOSIS 460-465) 800.

PNEUMONIA, ADULI 804

(PRINCIPAL DIACNOSIS 480-486)

826.

(PRINCIPAL DIAGNOSIS 532-534 WITH .30,.70, OR .90) NONGASTRIC PEPTIC ULCER HEADACHE 881.

(PRINCIPAL DIAGROSIS 784.0) (PRINCIPAL DIAGNOSIS 789.0) ABDOMINAL PAIN 883.

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FOURTH PRIORITY FOR INVESTIGATION

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TIME PERIOD 1982 MAY 22, DATE PREPARED.

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JUL-SEP 1980

Priority For Investigation

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

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4,621,152 NORTH CENTRAL REGION JAN-DEC 79 TIME PERIOU U.S. PATIENTS HOSPITALS

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DELL OF SURGERY

QAM Group

FOURTH PRIORITY FOR INVESTIGATION (CONTINUED)

Patients ?

Total

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> MALIGNANT NEGRITH OF LUNG, BRONCHUS, TRACHEA PATIENTS TRANSFUSED

(PRINCIPAL DIAGNUSIS 162)
MALIGNANT NEOPLOSM OF BREAST

(PRINCIPAL DIRCHOSIS 174-175) PSYCHOPHYSION OF A DISORDERS 747.

IPRINCIPAL DIAC-OSIS 306 OR 316) CHRONIC RHEUMAIIC HEART DISEASE 762.

(PRINCIPAL DIACHOSIS 393-398) ARTERIAL EMBGLESM AND THROMBOSIS (PRINCIPAL DIACHOSIS 444) 774.

ASTHMA, ADULT 808.

(PRINCIPAL DIAGNOSIS 493) DISEASE OF PAHCTEAS, SURGICAL (PRINCIPAL DIAGNOSIS 577) RHEUMATOID ARTHRITIS 830.

875.

(PRINCIPAL DIAL NOSIS 714)

DEVIATIONS

MAY 22, 1982

TIME PERIOD

JUL - SEP 1980

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SAMPLE HOSPITAL IDS, CPID

Quality Assurance Monitor **Monitor Profile**

4, 621, 152 PATIENTS 642 HOSPITALS Costa Group

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Professional Activity Study

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Priority For Investigation **Quality Assurance Monitor**

SAMPLE HOSPITAL IDS, CPHA

QUALITY ASSURANCE MONITOR

CONTROL GROUP

4,621,152 U.S. NORTH CENTRAL REGION PATIENTS JAN-DEC 79 TIME PERIOD HOSPITALS

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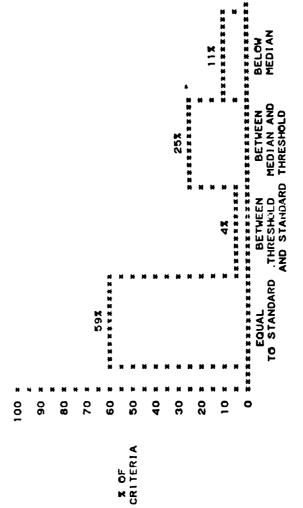
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QUALITY ASSURANCE MONITOR

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Priority For Investigation Quality Assurance Monitor

SAMPLE HOSPITAL

QUALITY ASSURANCE MONITOR

CONTROL GROUP

4,621,152 642 NORTH CENTRAL REGION JAN-DEC 79 TIME PERIOD PATIENTS. HOSPITALS

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QAM Group

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THIRD PRIORITY FOR INVESTIGATION.

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(PRINCIPAL DIAGNOSIS 218)

FOURTH PRIORITY FOR INVESTIGATION

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ANNEX E

Listing of Information Available in the Automated Variance Report, St. Paul Fire and Marien Insurance Company

TYPE OF INFORMATION AVAILABLE THROUGH AUTOMATED VARIANCE REPORT

- 1. Patient Identification
- 2. Type of Variance
 - a. Medication
 - b. Treatment
 - c. Trauma
 - d. Other
- 3. Type of Injury
- 4. Extent of Injury
- 5. Site Where Variances Occurred
- 6. Hospital Personnel Involved
- 7. Factors Associated with Variance.
 - a. Staff
 - b. Patient
 - c. Visitor
 - d. Material
 - e. Safety Devices

11. DISTRIBUTION LIST:

Defense Technical Information Center (2)

HQDA (DASG-HCD-S) (1)

Dir, Joint Medical Library, Offices of The Surgeons General, USA/USAF, The Pentagon, RM 1B-473, Washington, DC 20310 (1)

Comdt, Academy of Health Sciences US Army (1)

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